

Amendments to the Drawings:

Please replace the original 42 drawing sheets (figures 1-41) with the attached set of 47 replacement sheets of formal drawings.

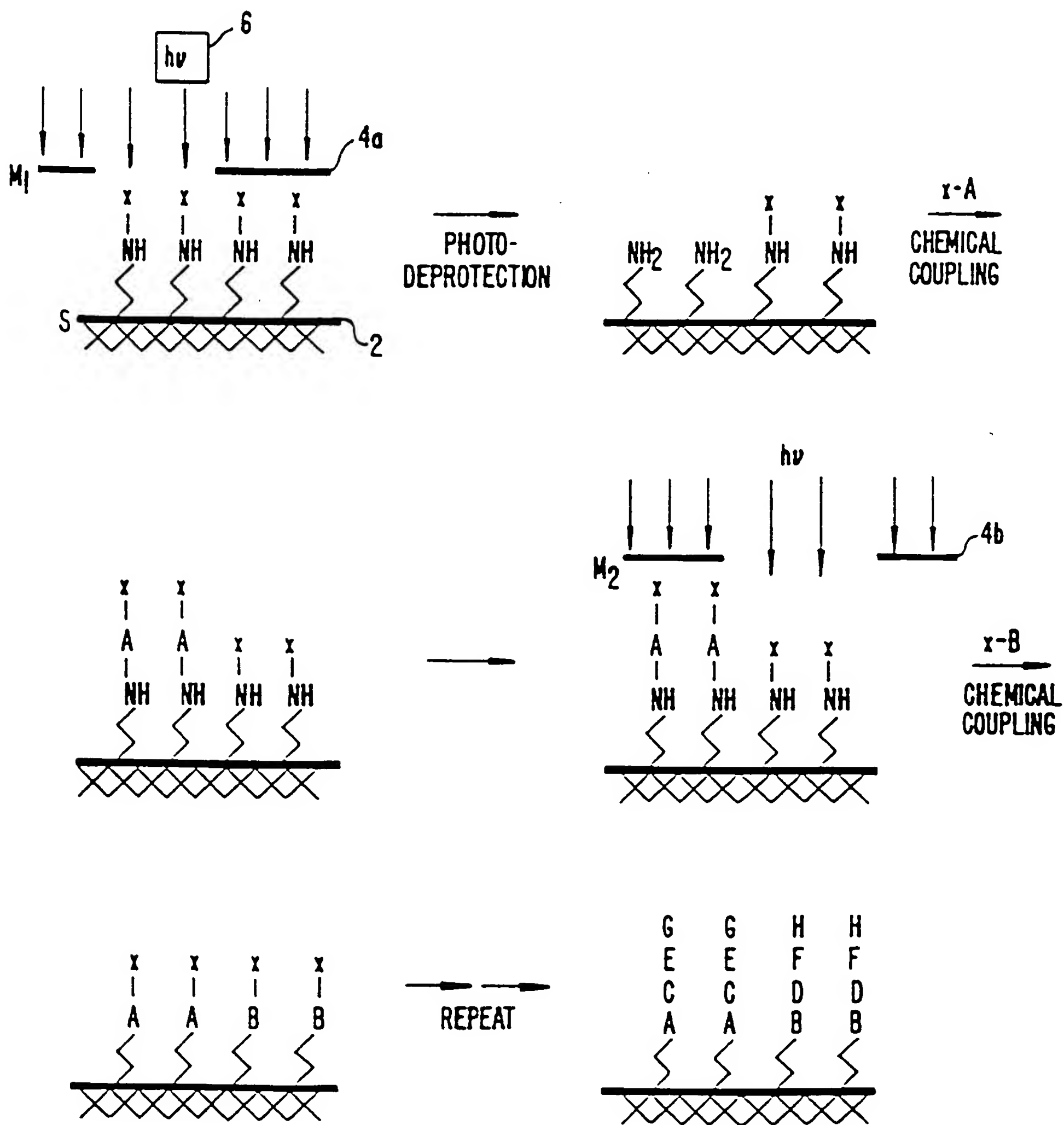


FIG. 1

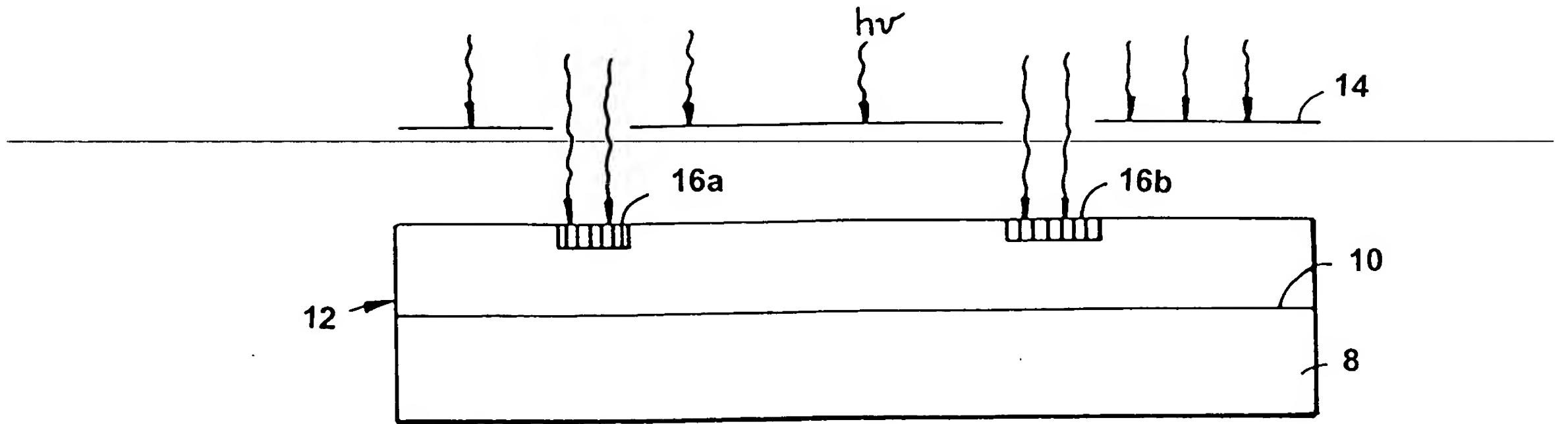


FIG. 2

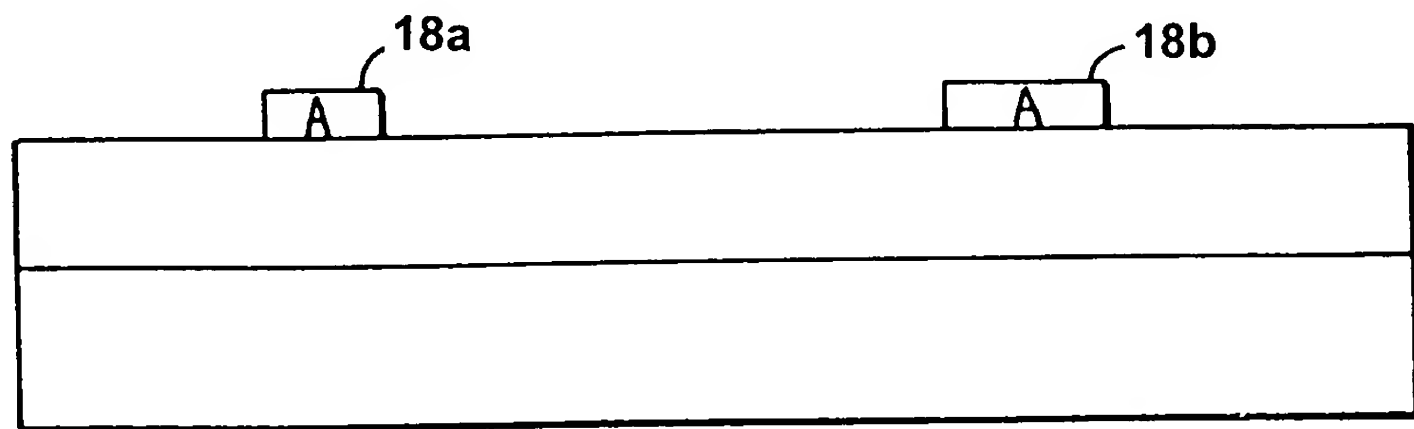


FIG. 3

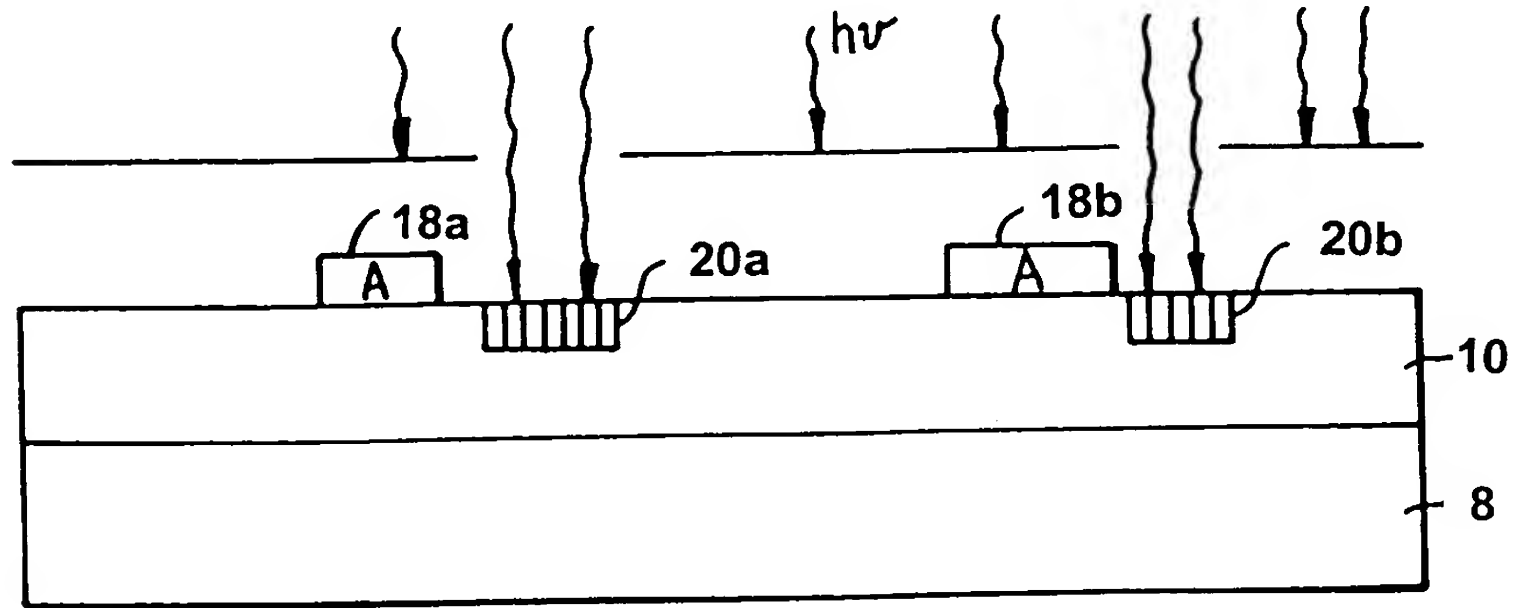


FIG. 4

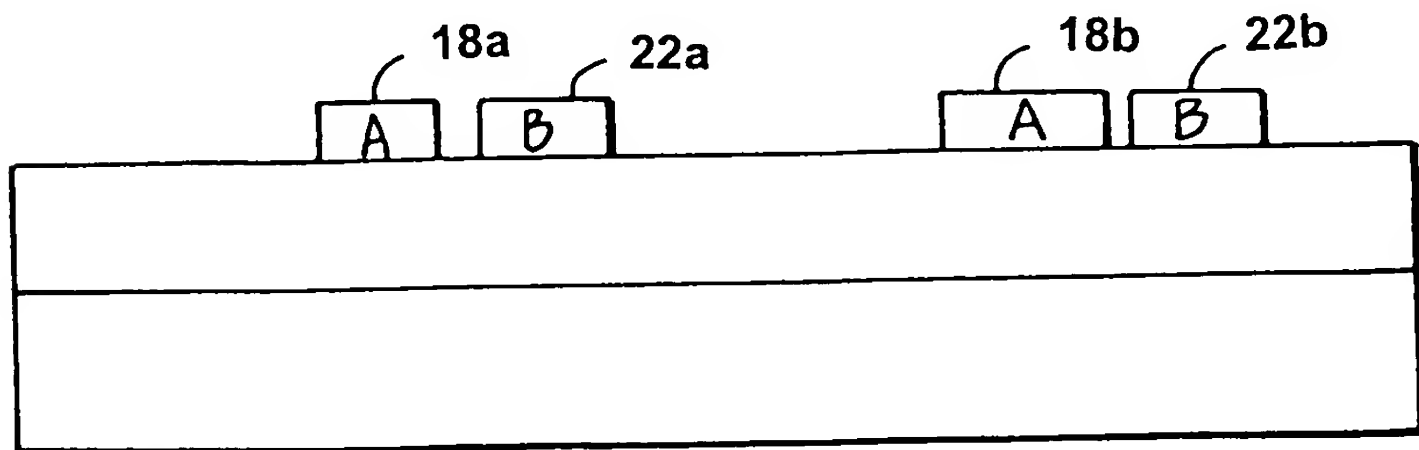


FIG. 5

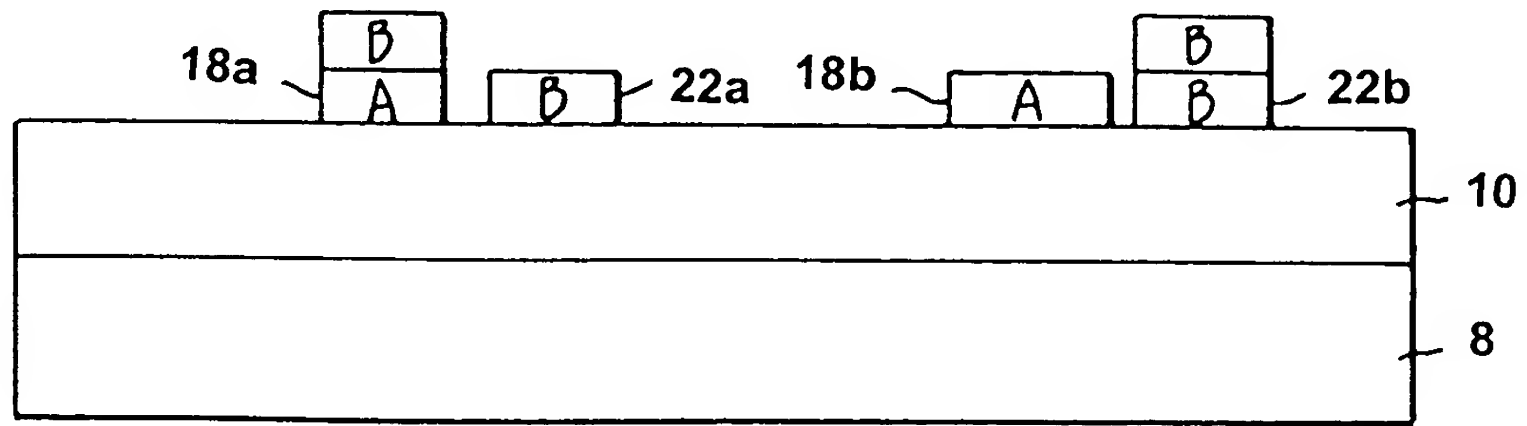


FIG. 6

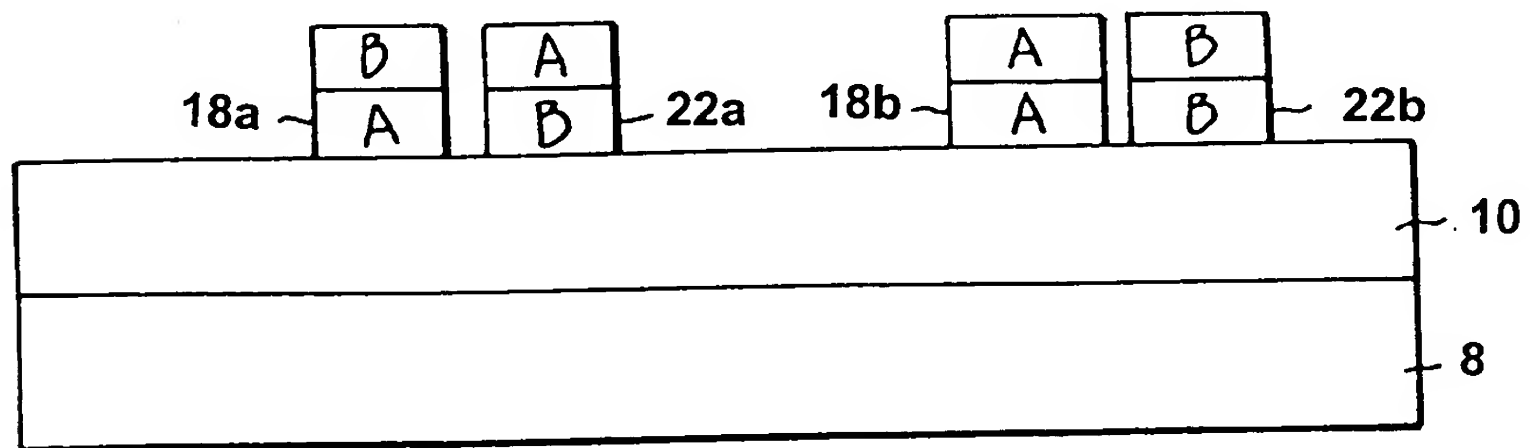


FIG. 7

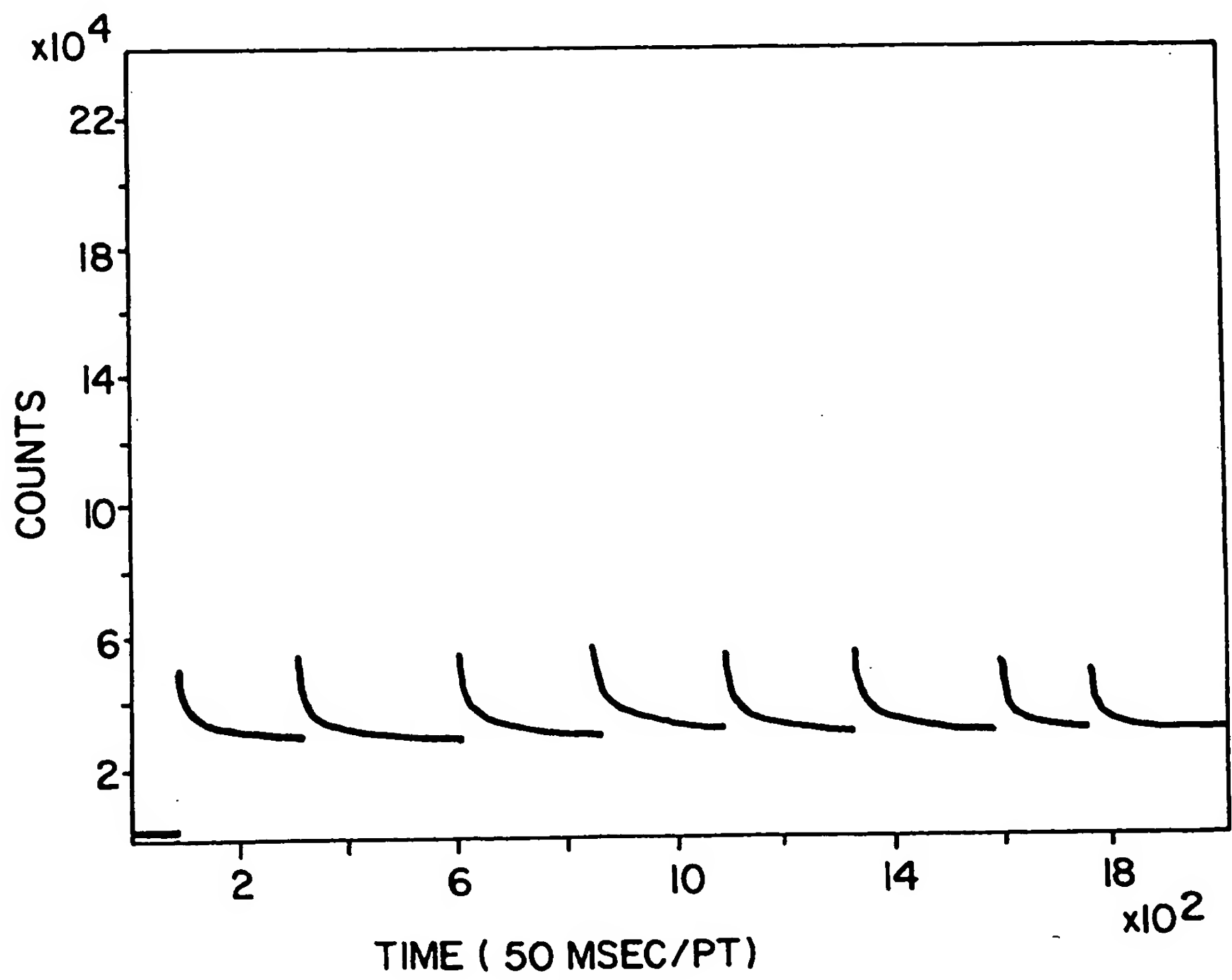


FIG. 8A

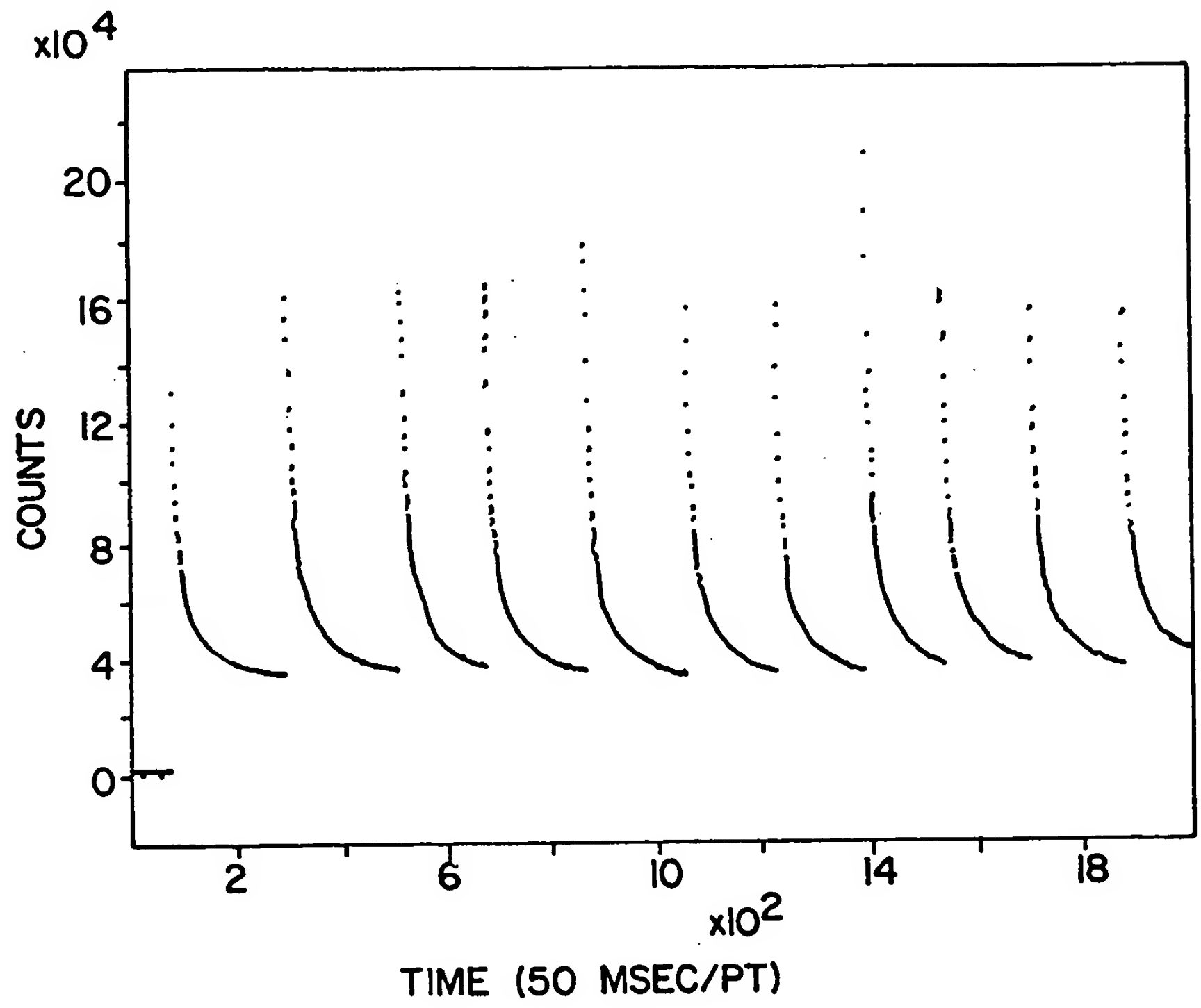


FIG. 8B

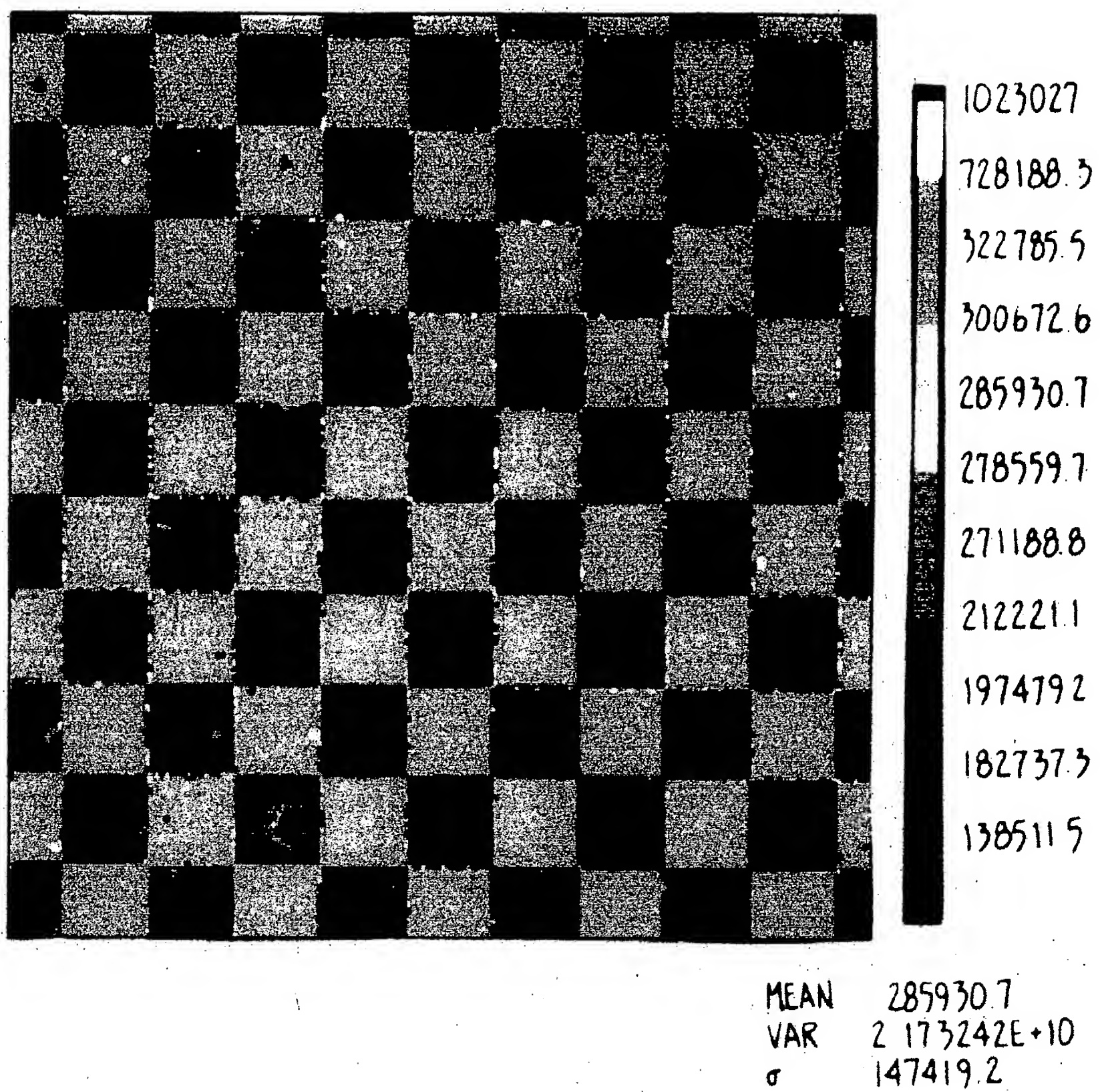
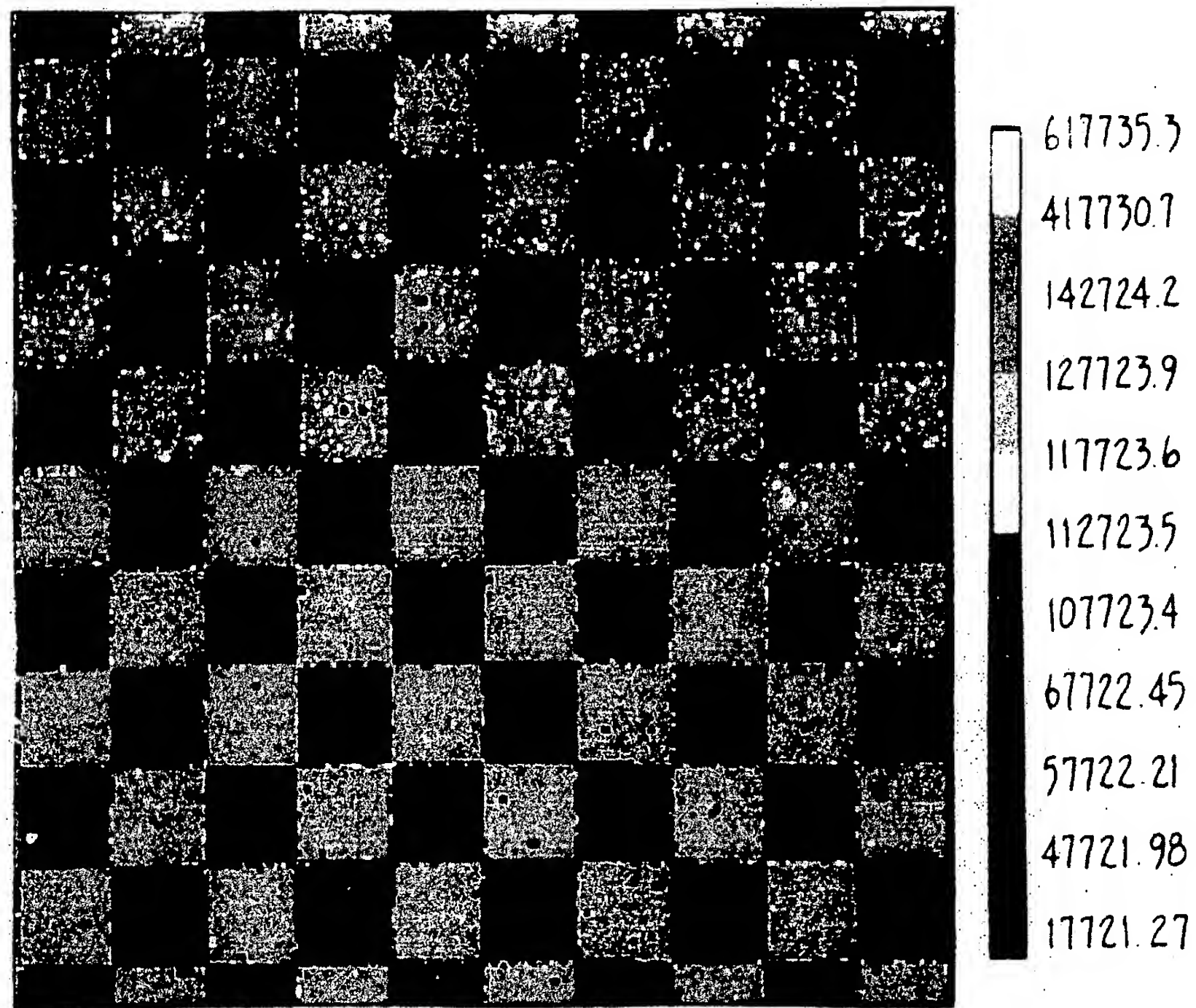


FIG. 9A

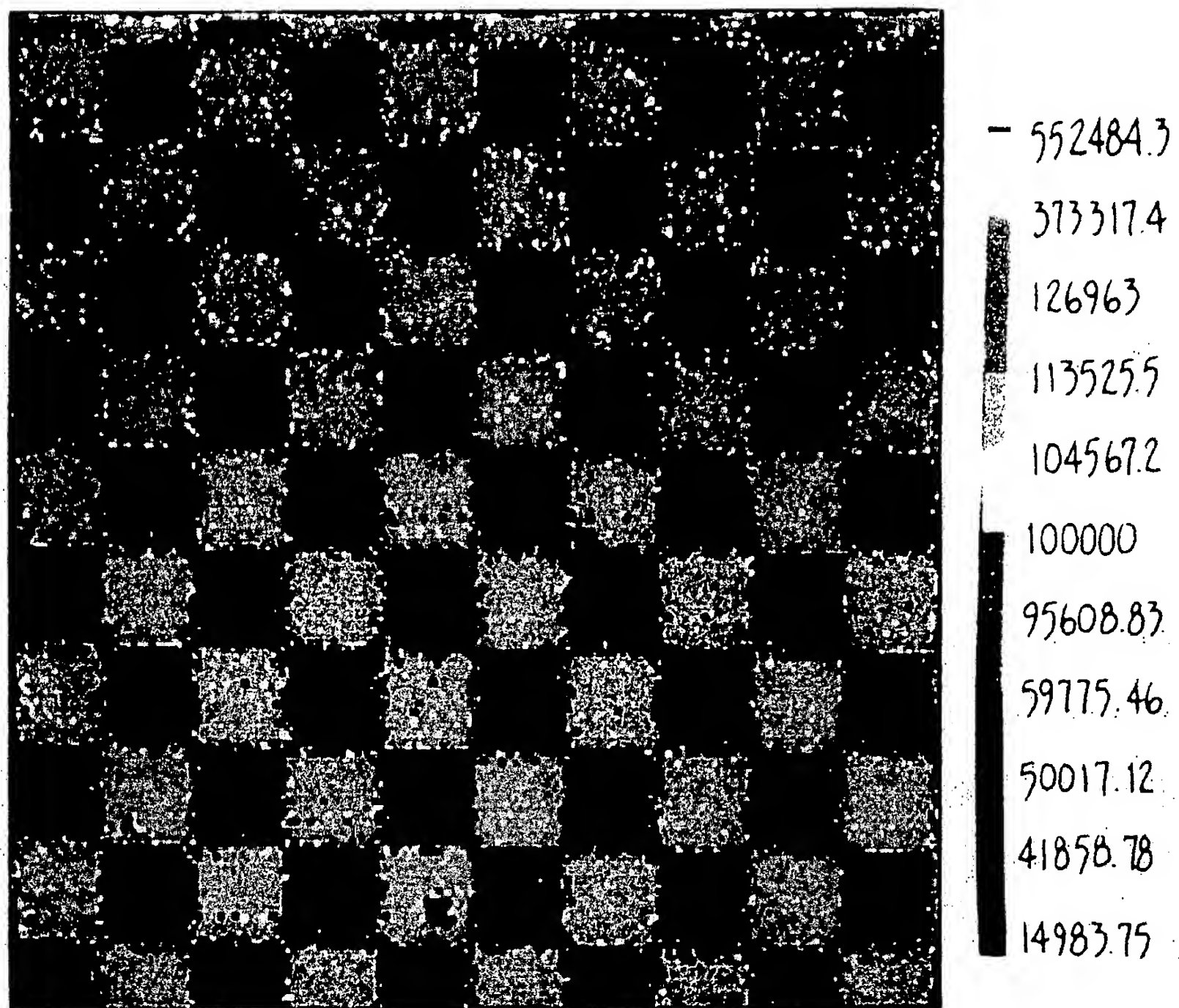
BEST AVAILABLE COPY



MEAN: 117723.6
VAR: 1.000047E+10
 σ : 100002.3

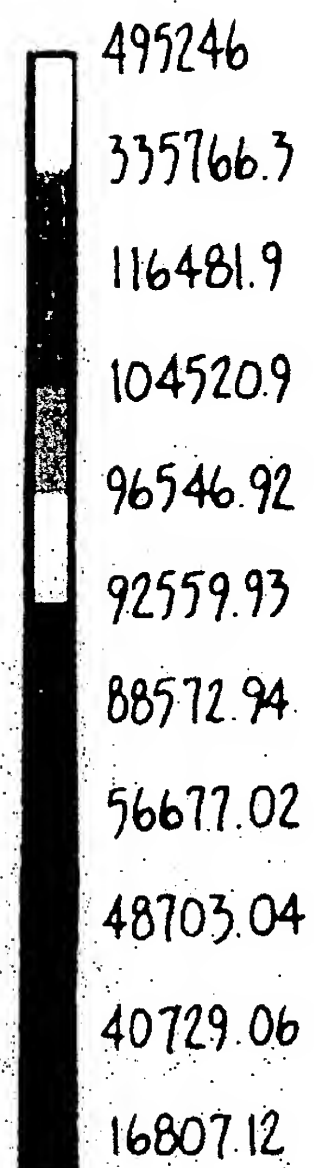
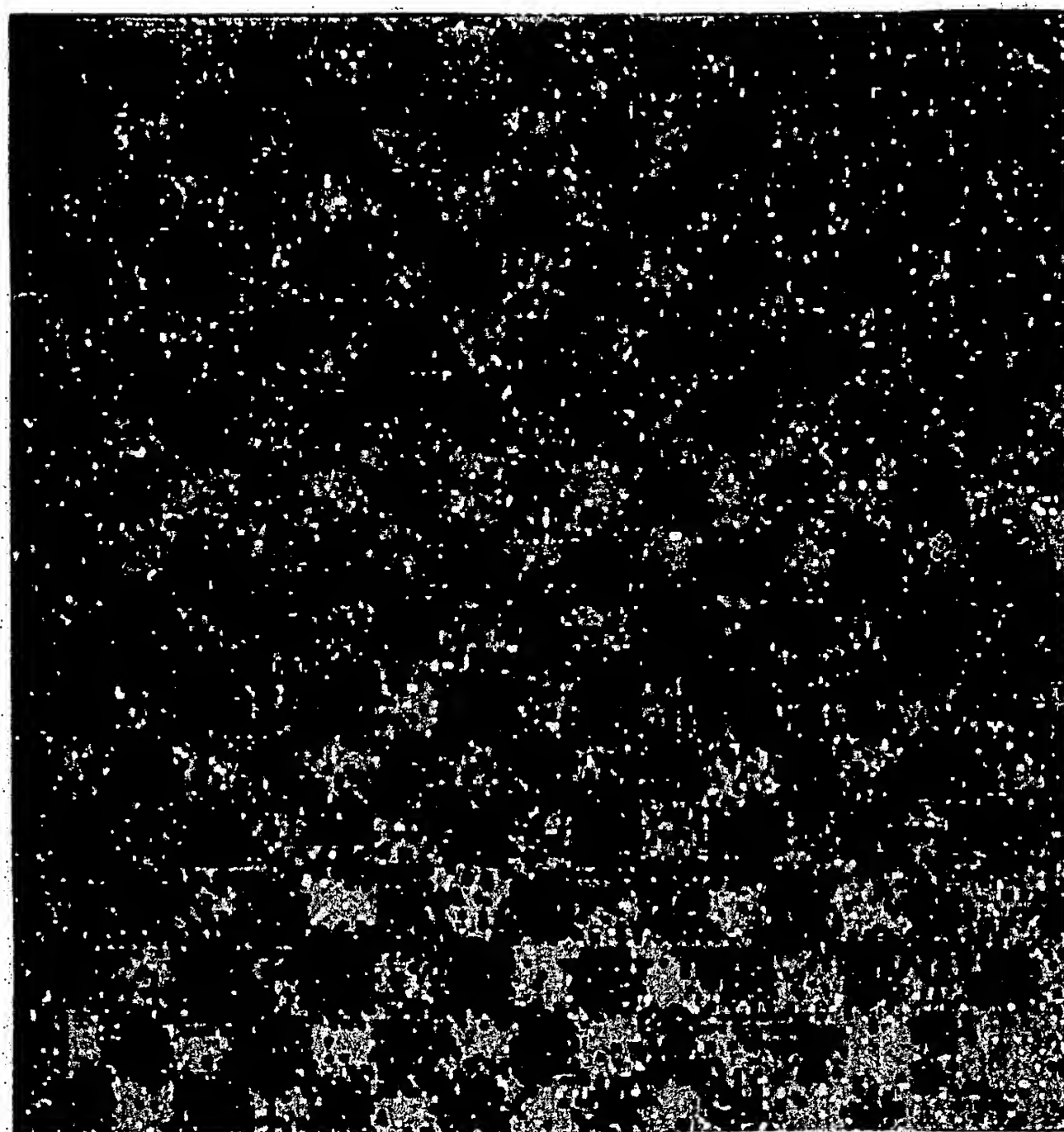
FIG. 9B.

BEST AVAILABLE COPY



MEAN 104567.2
VAR 8.025189E+09
 σ 89583.42

FIG. 9C.
BEST AVAILABLE COPY



MEAN: 96546.92
VAR: 6.358437E+09
 σ : 79739.8

FIG. 9D.

BEST AVAILABLE COPY

BEST AVAILABLE COPY

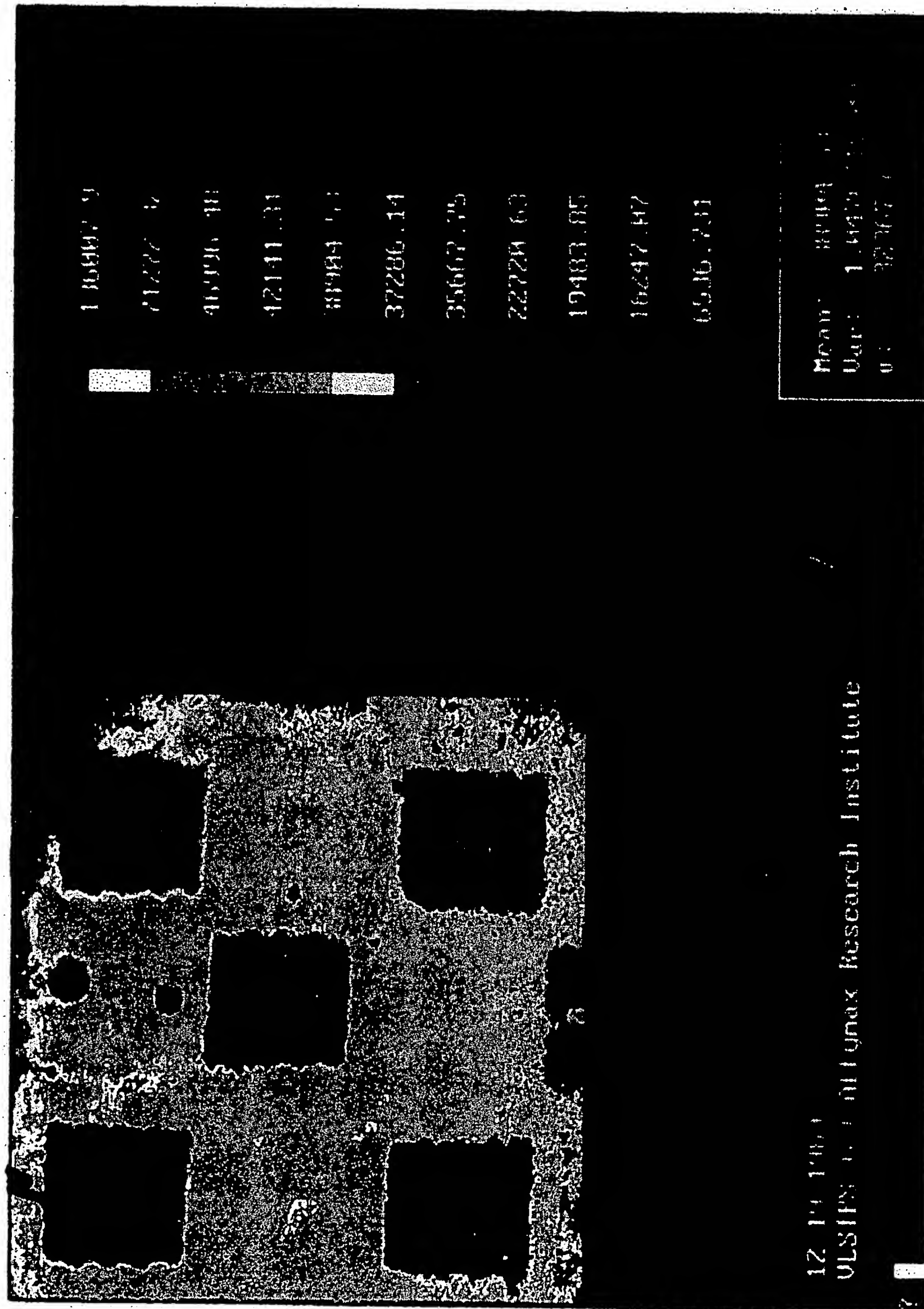


FIG. 10.

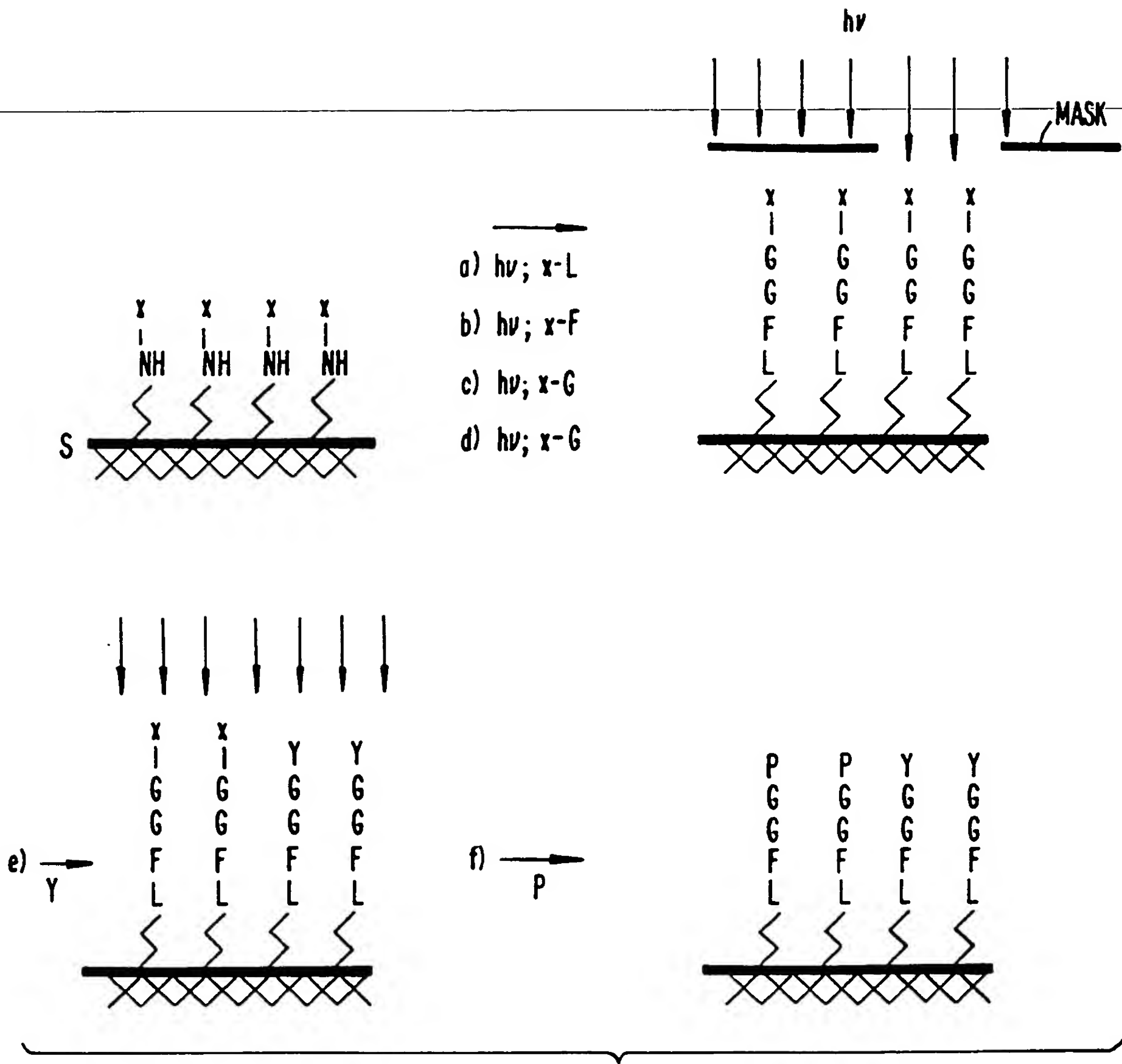
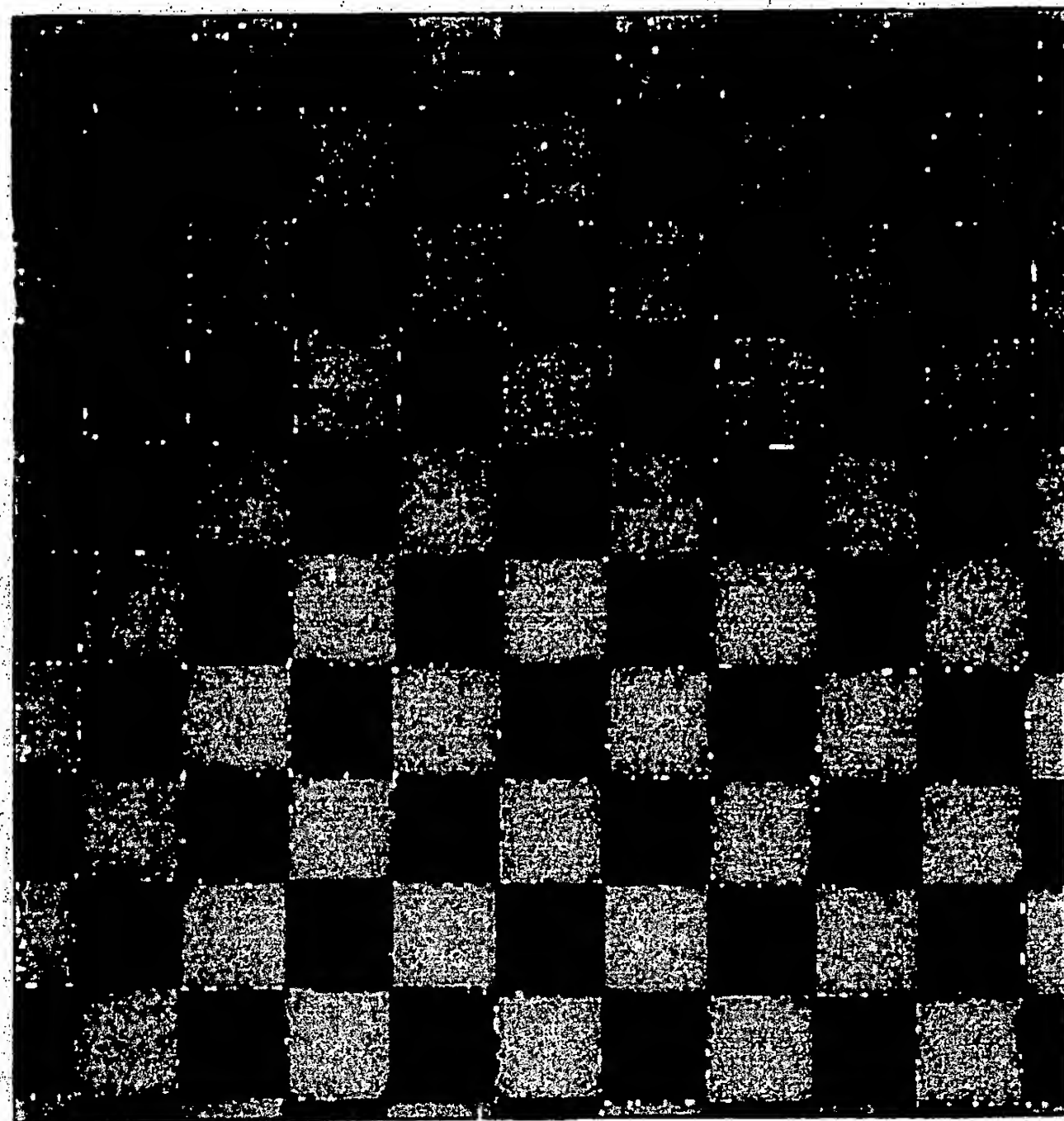


FIG. 11



636588
428583.8
142577.9
126977.5
116577.3
111377.2
106177.1
64576.25
54176.03
43775.82
12575.18

MEAN: 116577.3
VAR: 1.081645E+10
σ: 104002.1

FIG. 12.

BEST AVAILABLE COPY

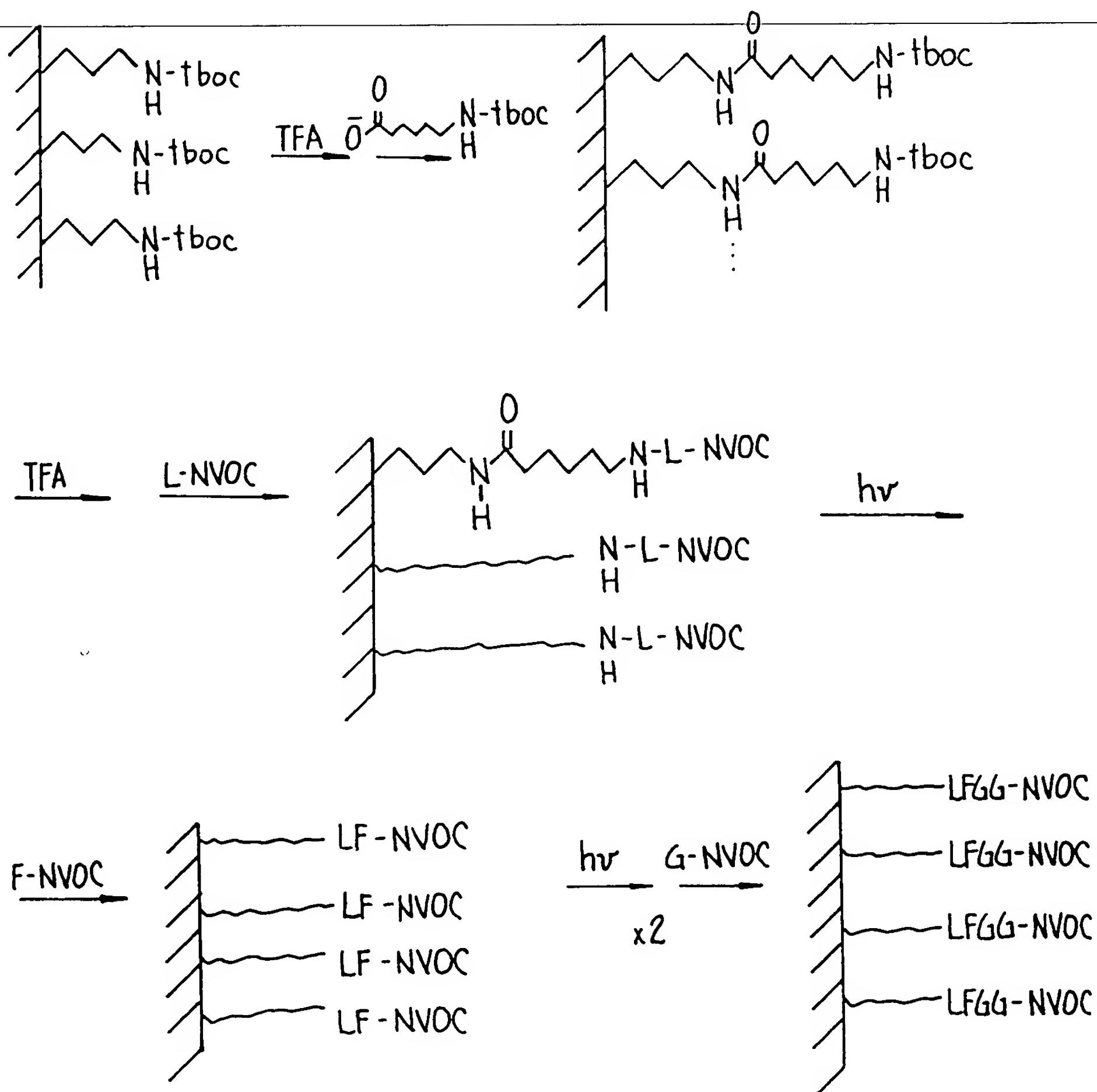


FIG. 13A

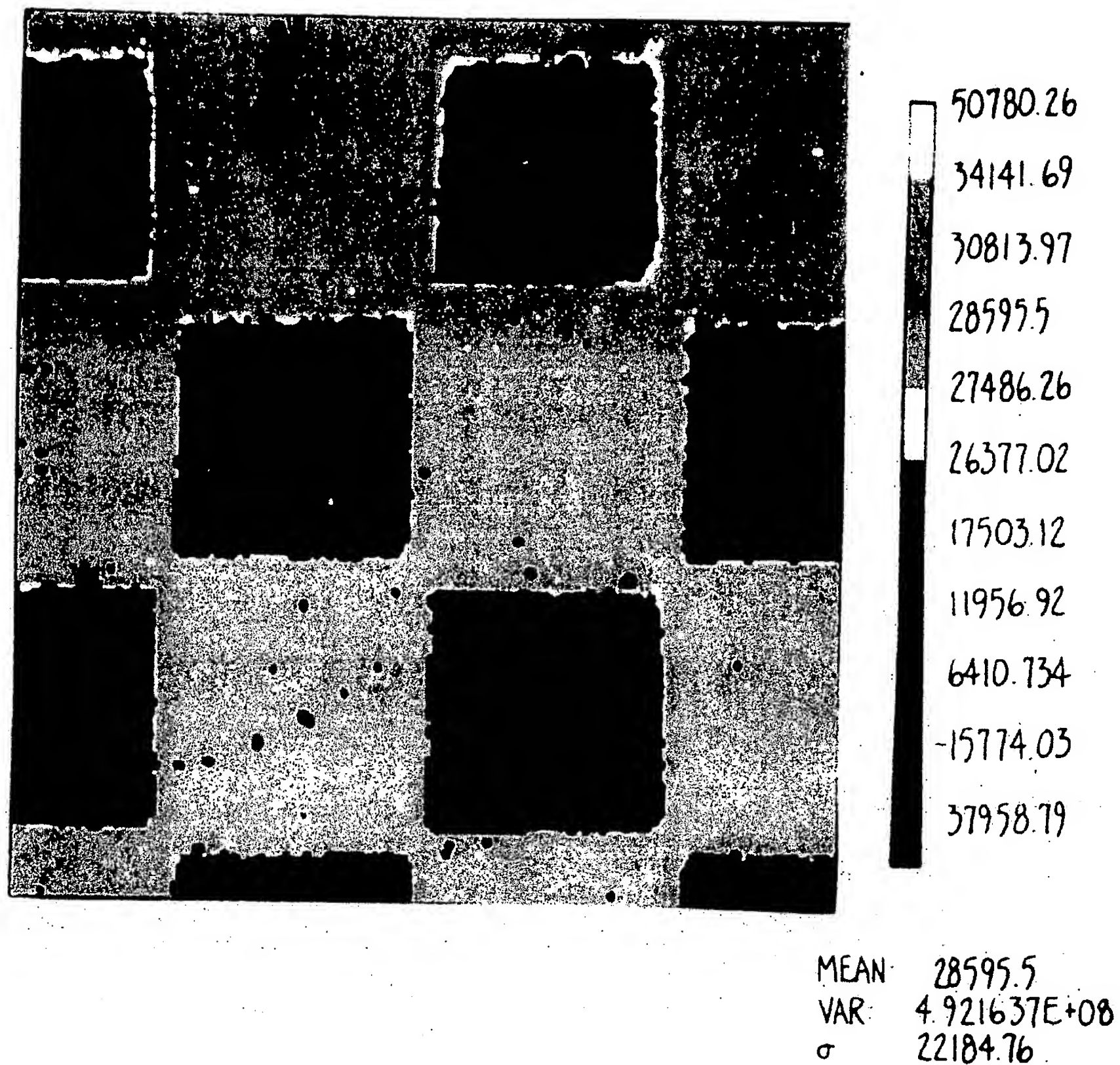
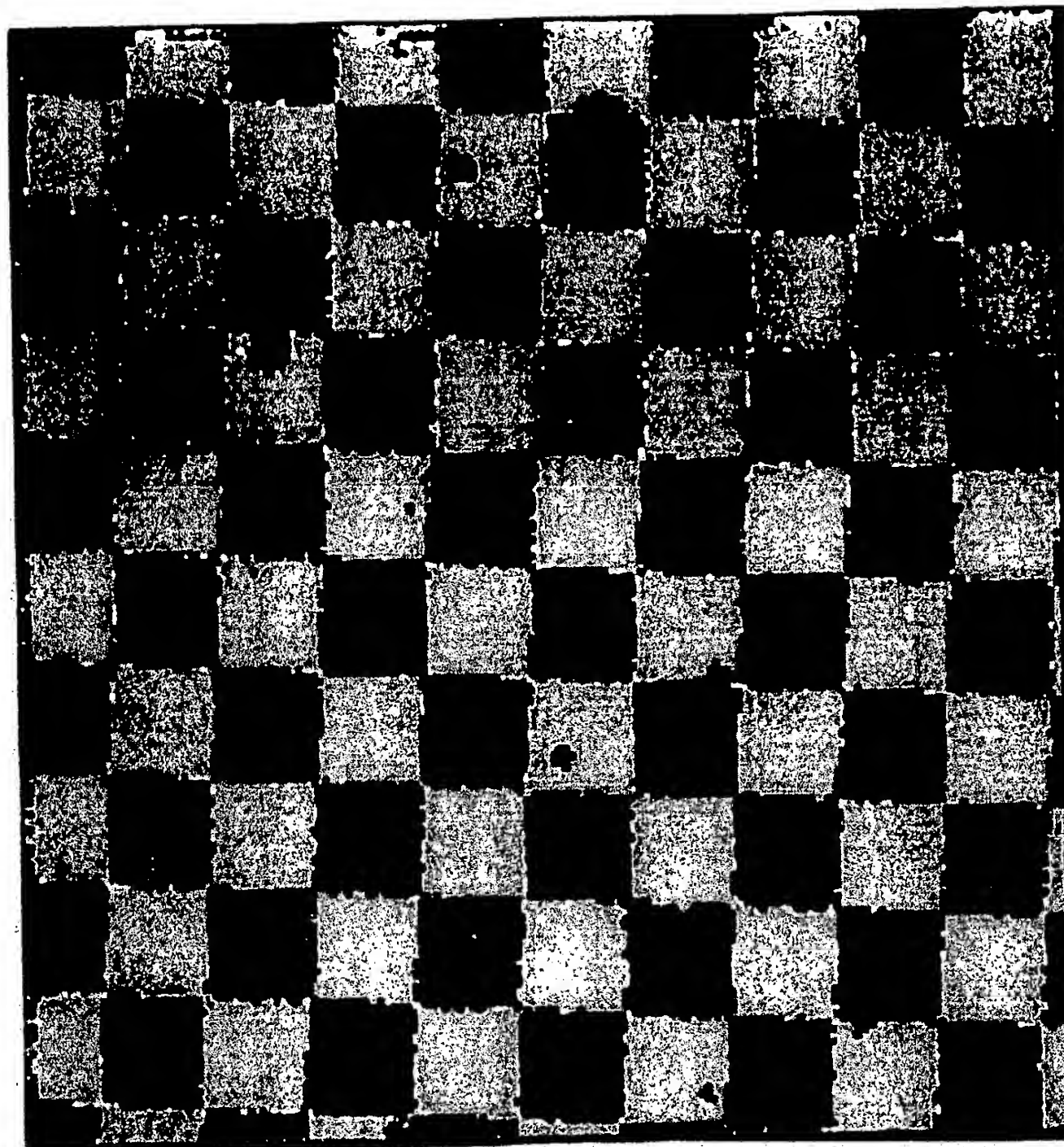


FIG. 13C.

BEST AVAILABLE COPY

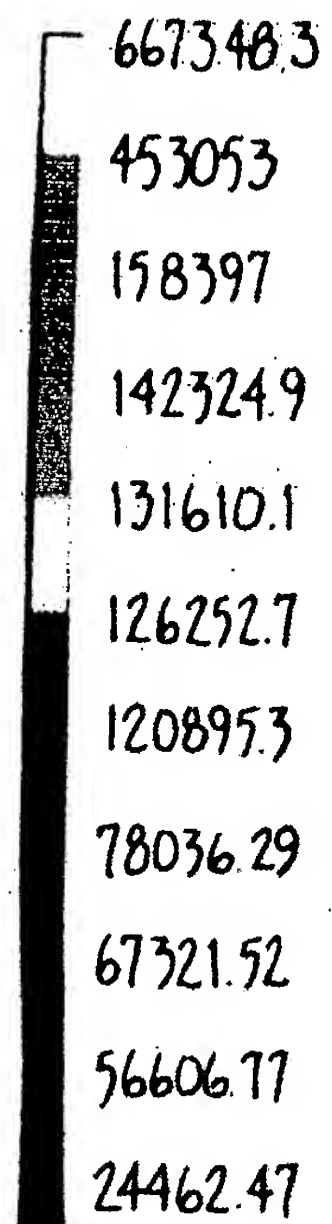
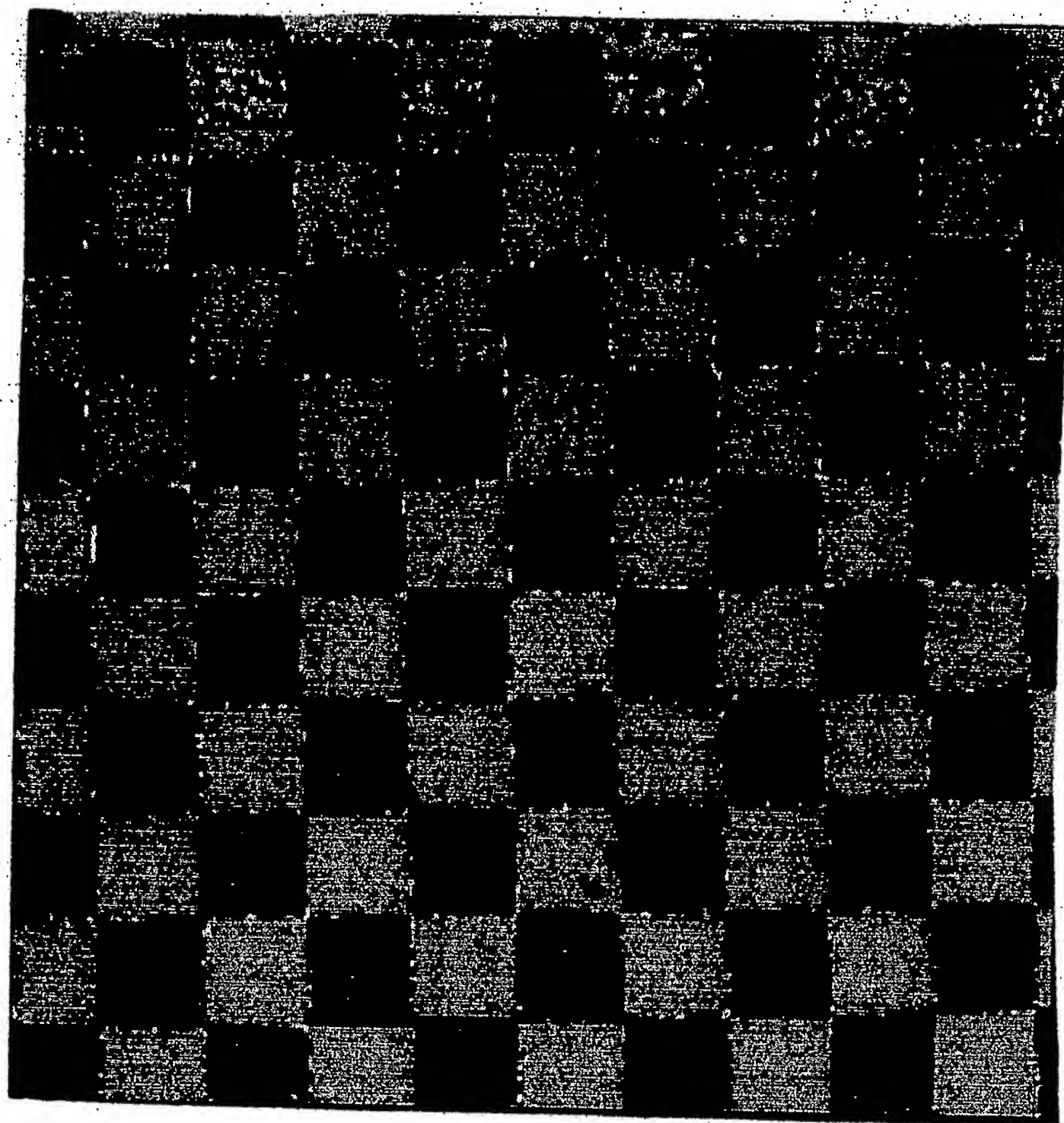


879976.1
600504.3
216230.6
195270.2
181296.6
174309.8
167323
111428.7
97455.07
83481.48
41560.72

MEAN: 181296.6
VAR: 1.952612E+10
 σ 139735.9

FIG. 13D.

BEST AVAILABLE COPY



MEAN: 131610.1
VAR: 1.148062E+10
 σ : 107147.6

FIG. 14

BEST AVAILABLE COPY

P	A	S	G	
<u>L</u> P GFL	<u>L</u> A GFL	<u>L</u> S GFL	<u>L</u> G GFL	L
<u>F</u> P GFL	<u>F</u> A GFL	<u>F</u> S GFL	<u>F</u> G GFL	F
<u>W</u> P GFL	<u>W</u> A GFL	<u>W</u> S GFL	<u>W</u> G GFL	W
<u>Y</u> P GFL	<u>Y</u> A GFL	<u>Y</u> S GFL	<u>Y</u> G GFL	Y

L SET

FIG. 15A

p	a	s	g	
<u>Y</u> p GFL	<u>Y</u> a GFL	<u>Y</u> s GFL	<u>Y</u> g GFL	Y
<u>f</u> p GFL	<u>f</u> a GFL	<u>f</u> s GFL	<u>f</u> g GFL	f
<u>w</u> p GFL	<u>w</u> a GFL	<u>w</u> s GFL	<u>w</u> g GFL	w
<u>y</u> p GFL	<u>y</u> a GFL	<u>y</u> s GFL	<u>y</u> g GFL	y

D SET

FIG. 15B

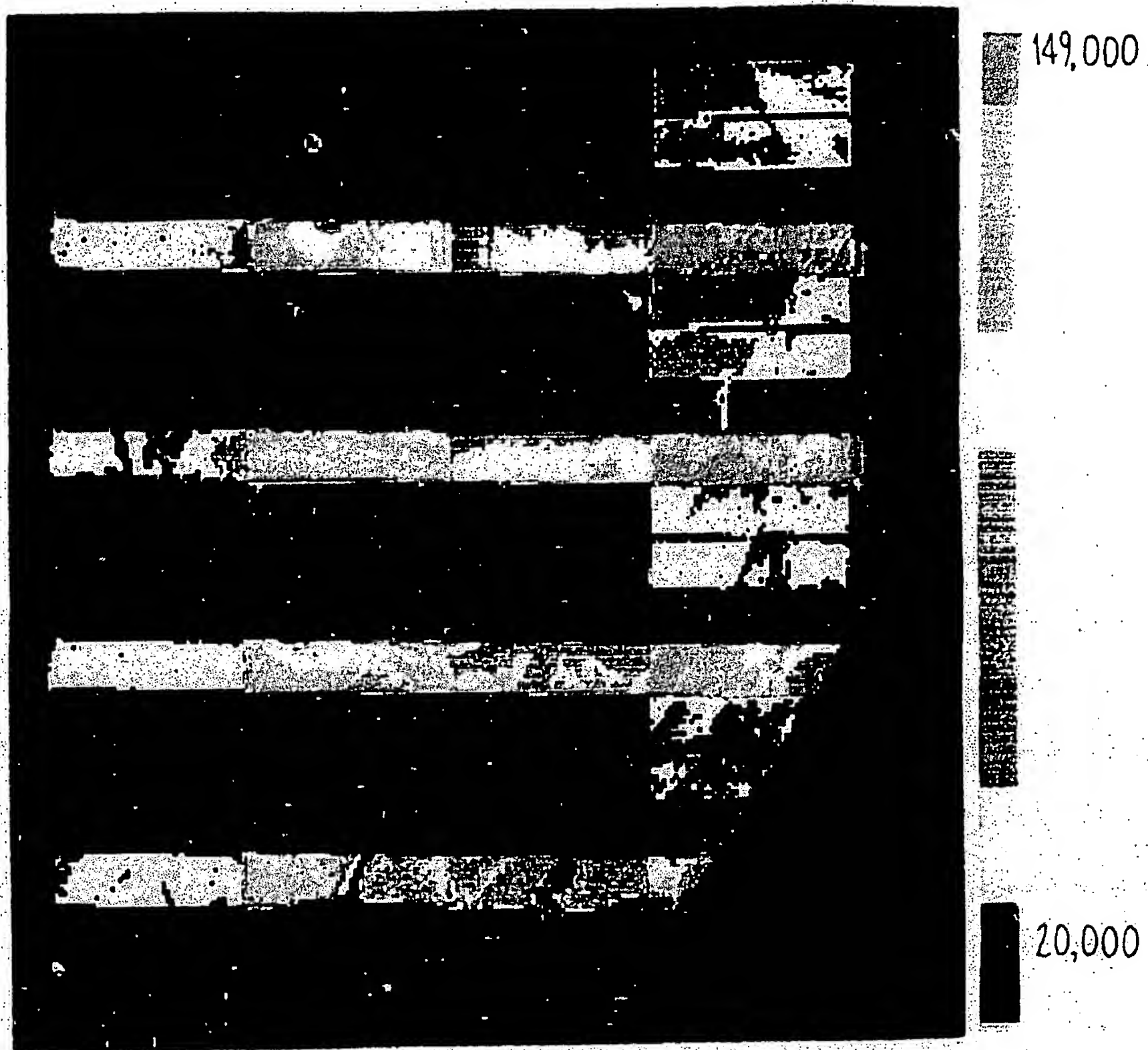


FIG. 16.

BEST AVAILABLE COPY

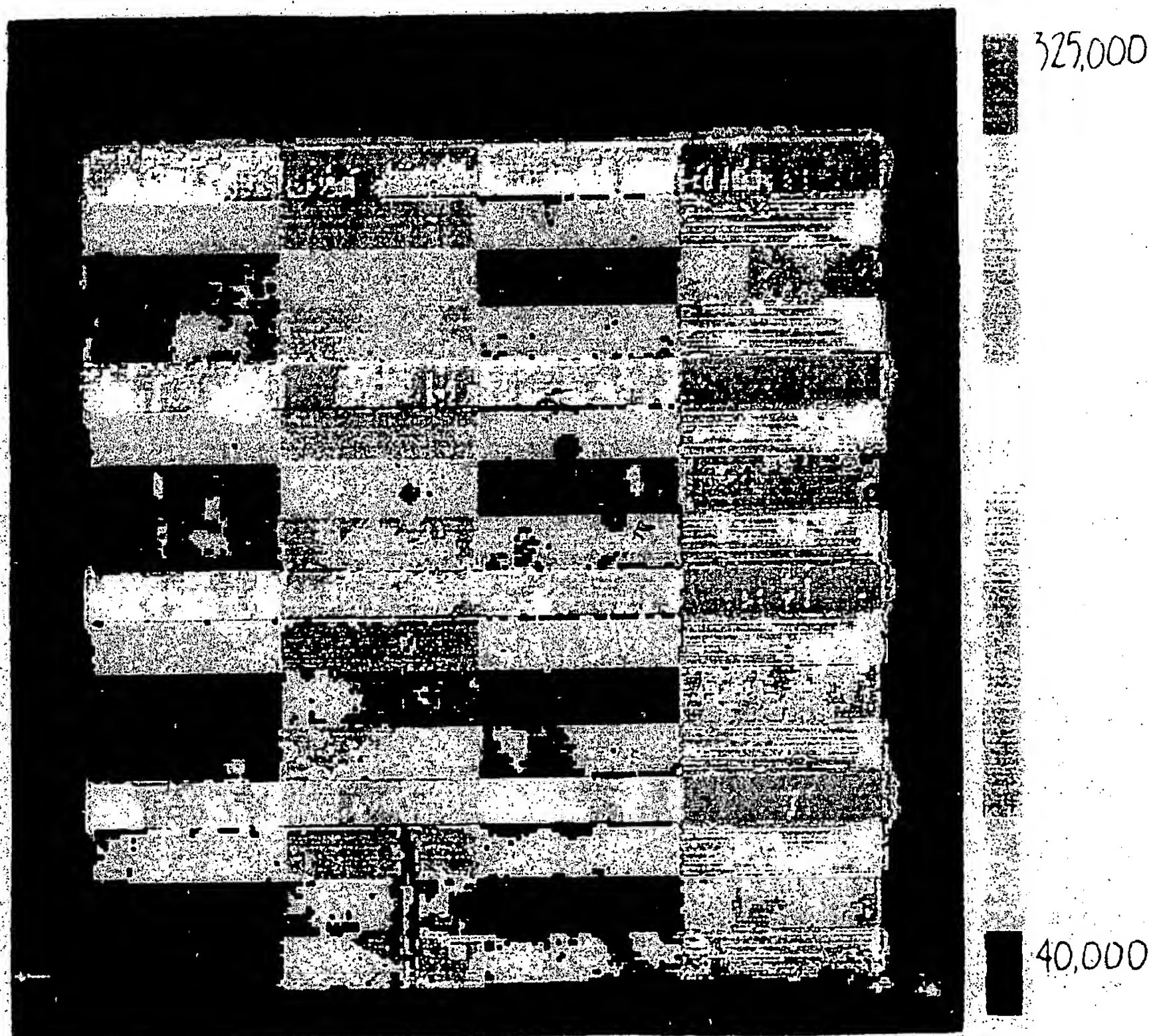


FIG. 17.

BEST AVAILABLE COPY

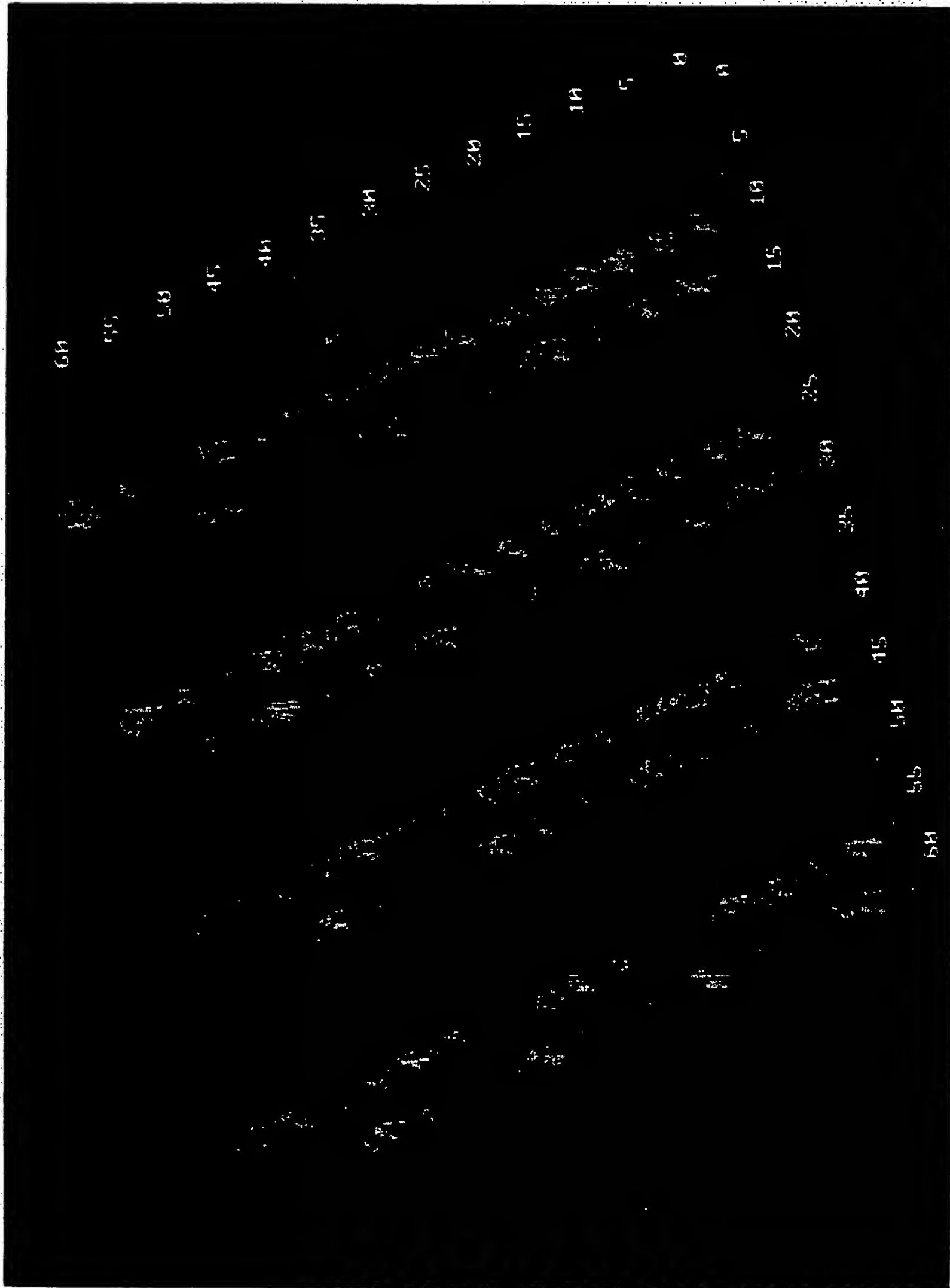


FIG. 18.

BEST AVAILABLE COPY

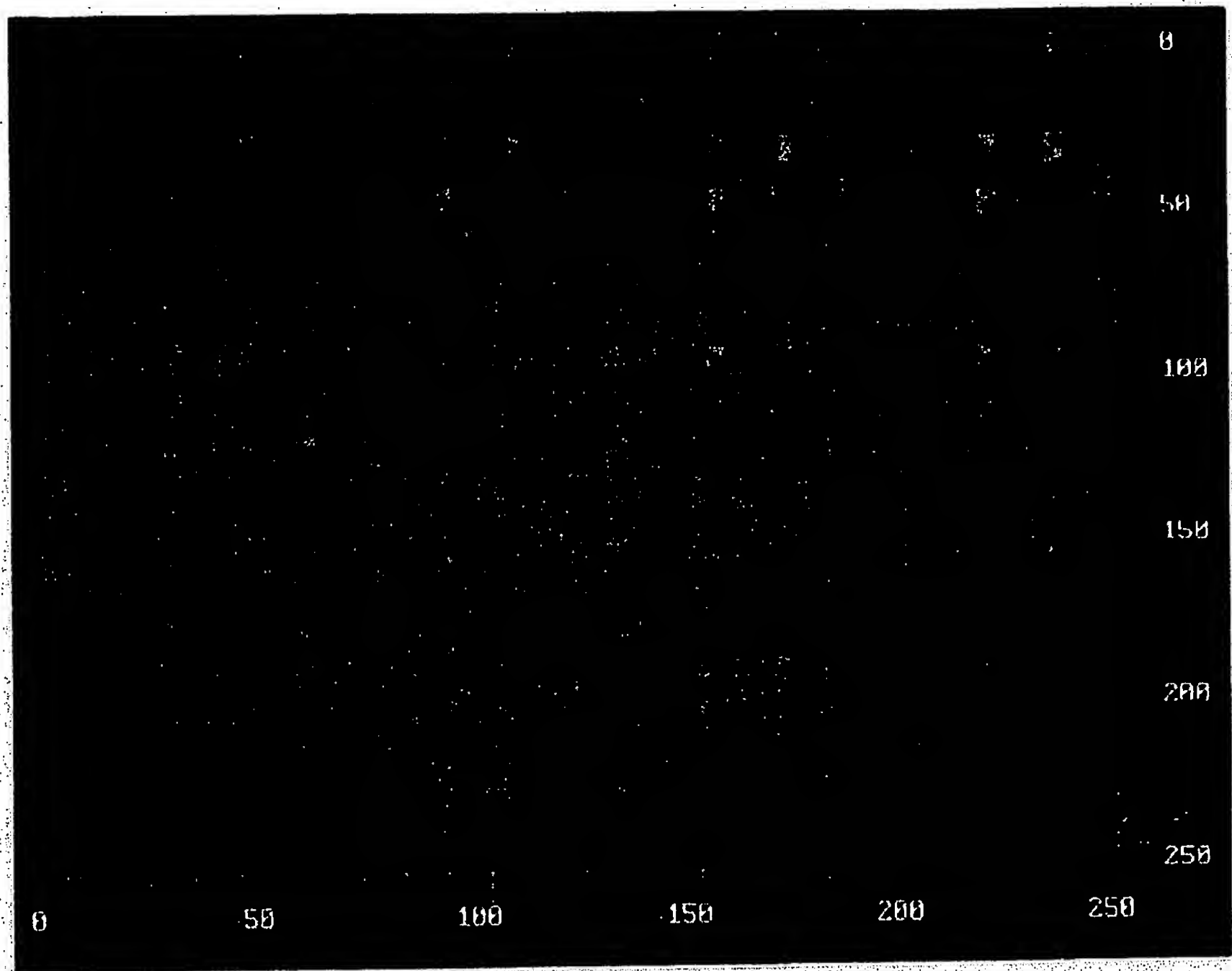


FIG. 19.

BEST AVAILABLE COPY

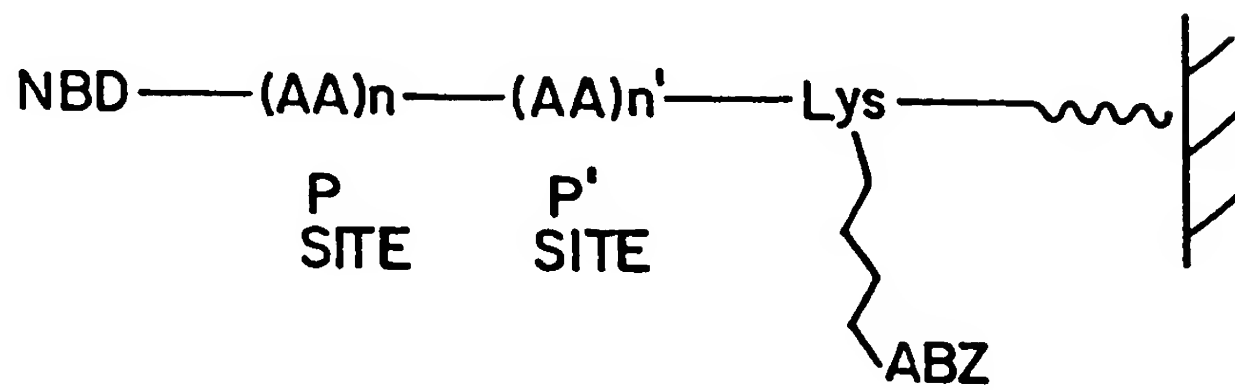


FIG. 20A

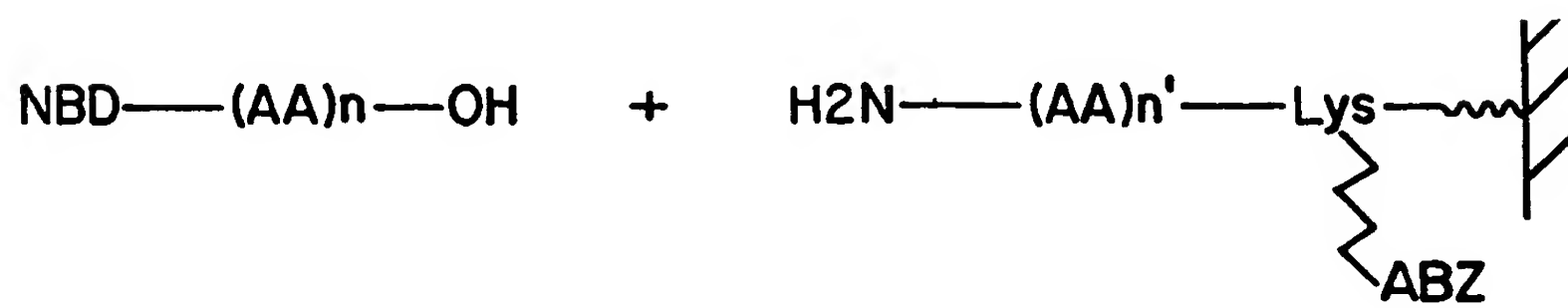
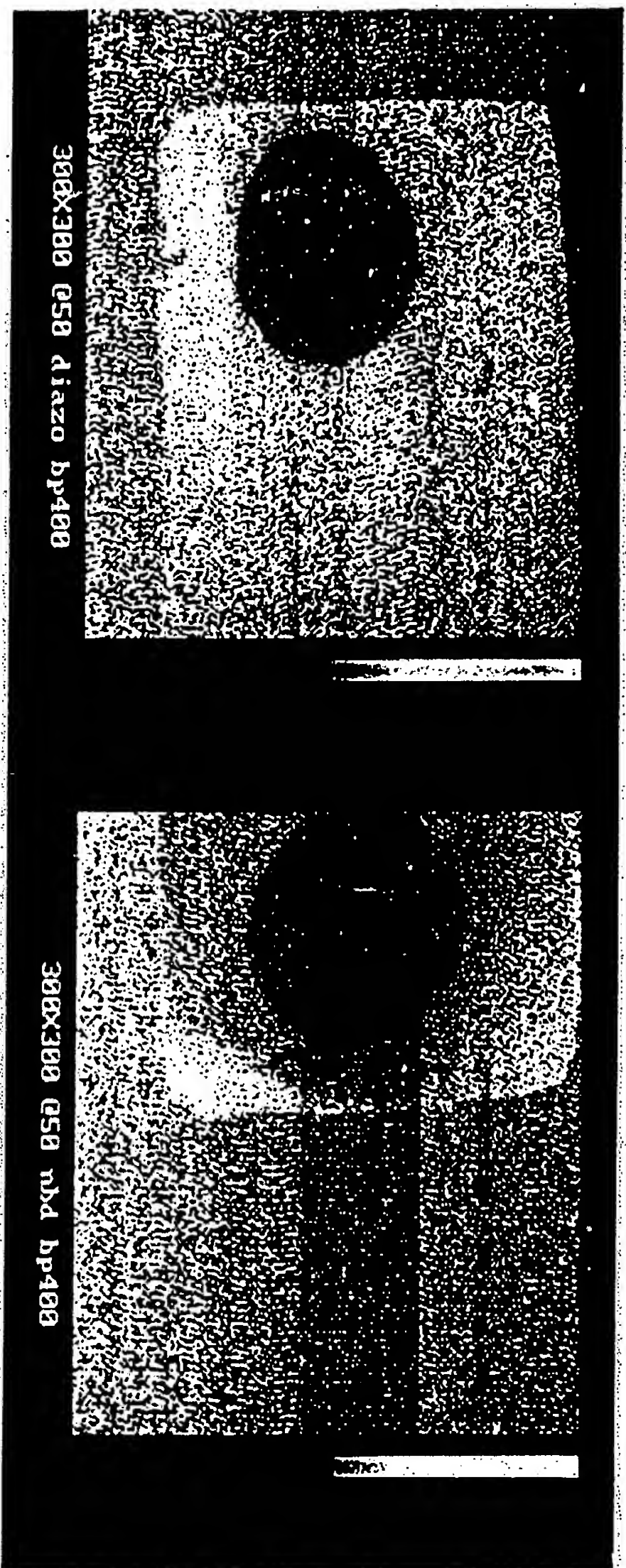


FIG. 20B



BEST AVAILABLE COPY

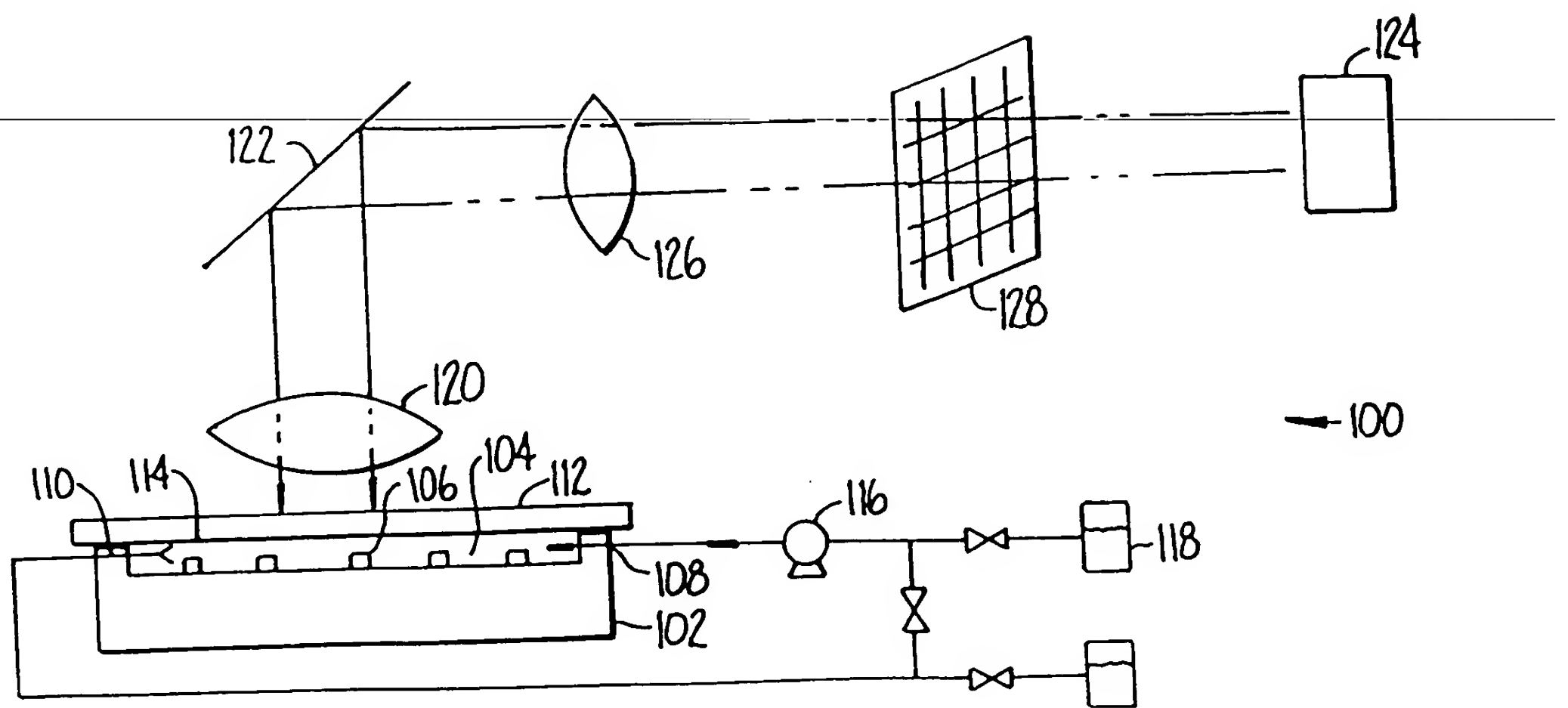


FIG. 22A

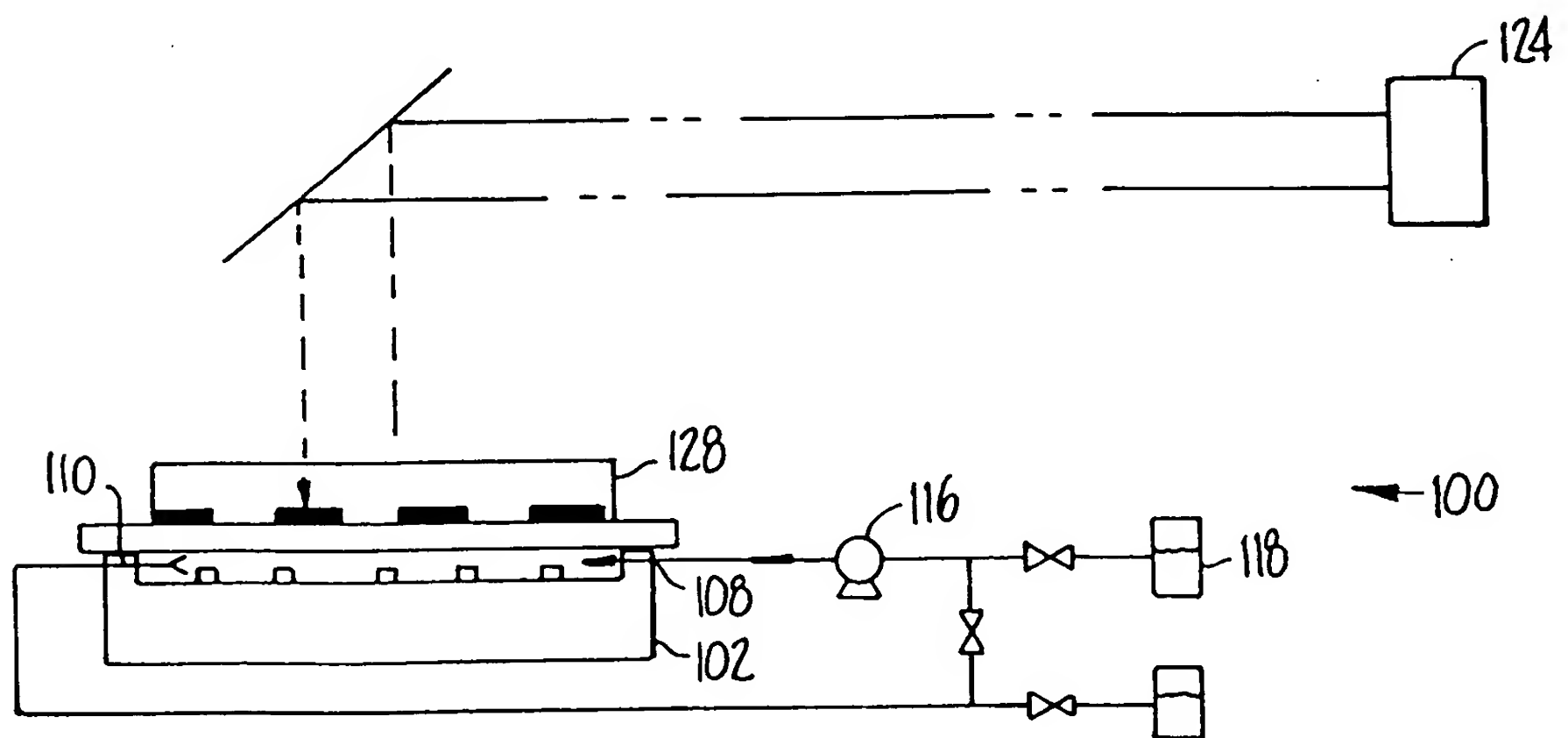


FIG. 22B

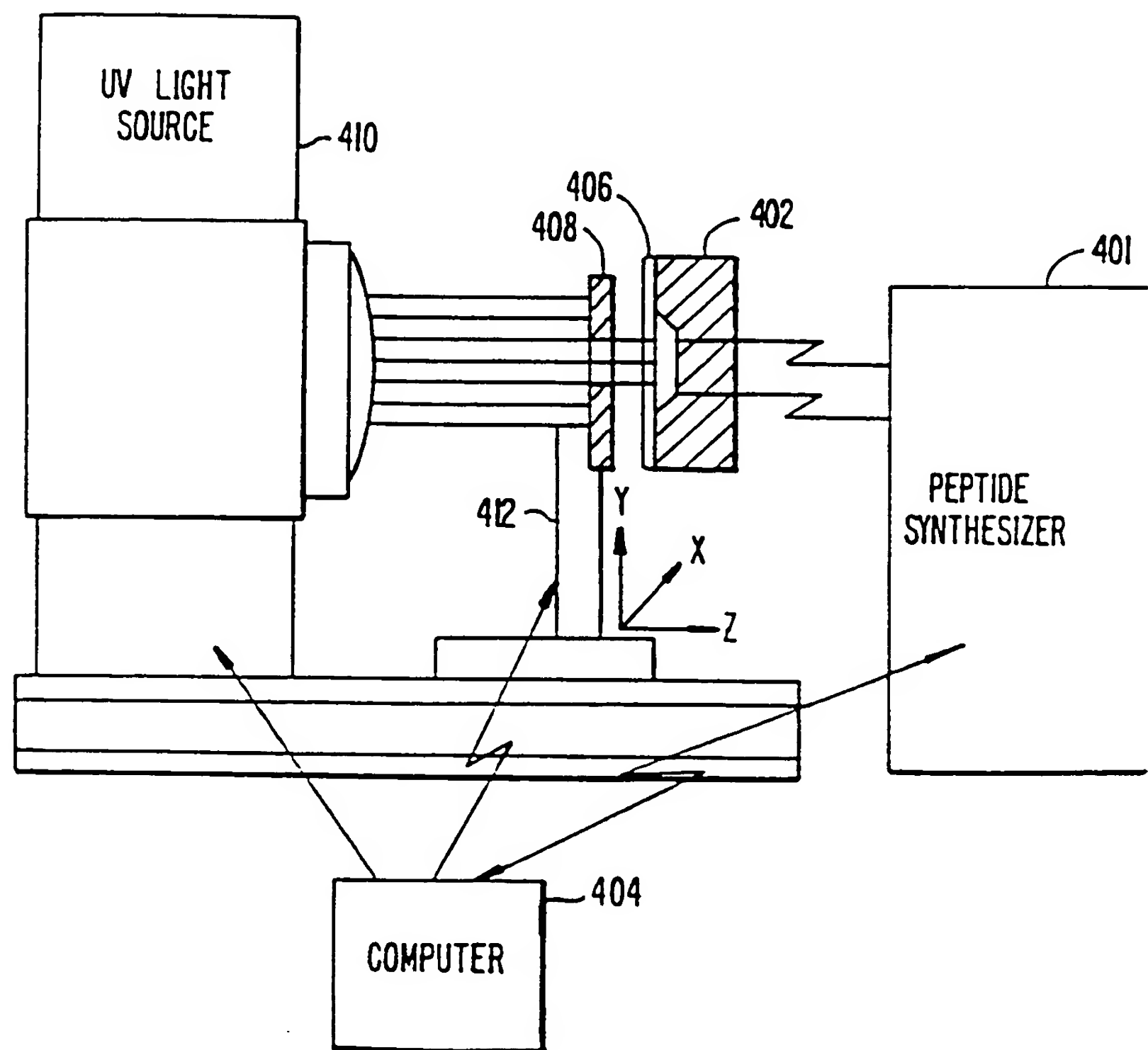


FIG. 23

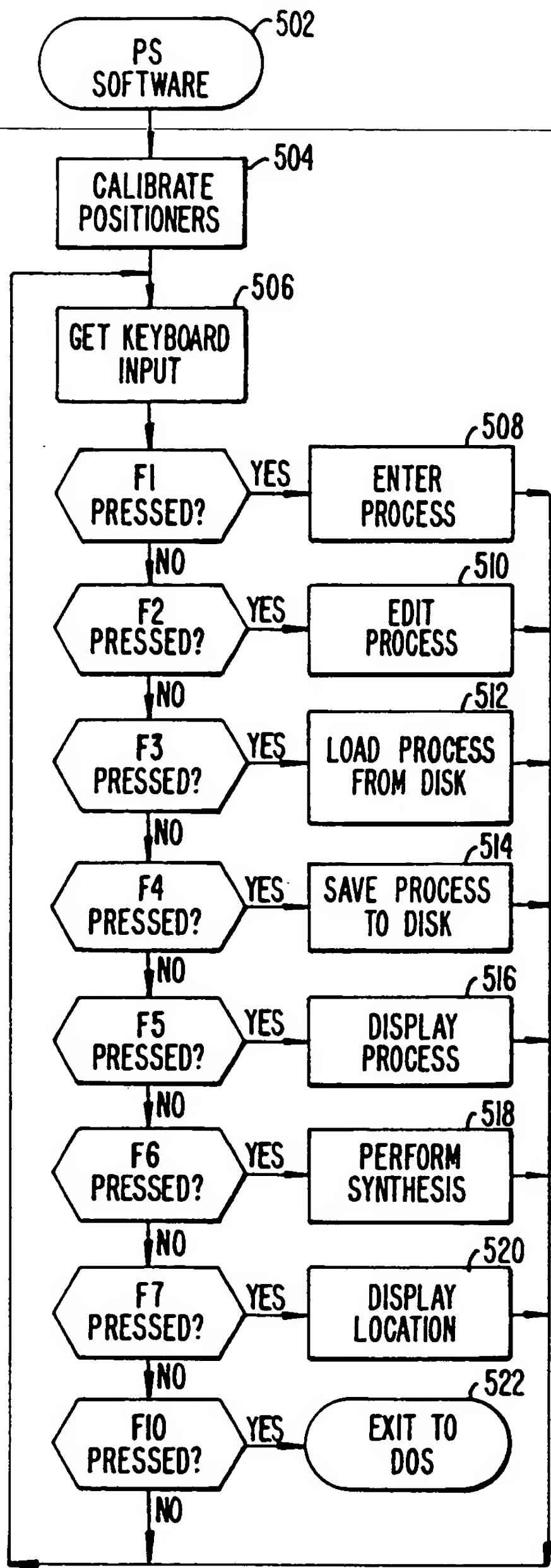


FIG. 24A

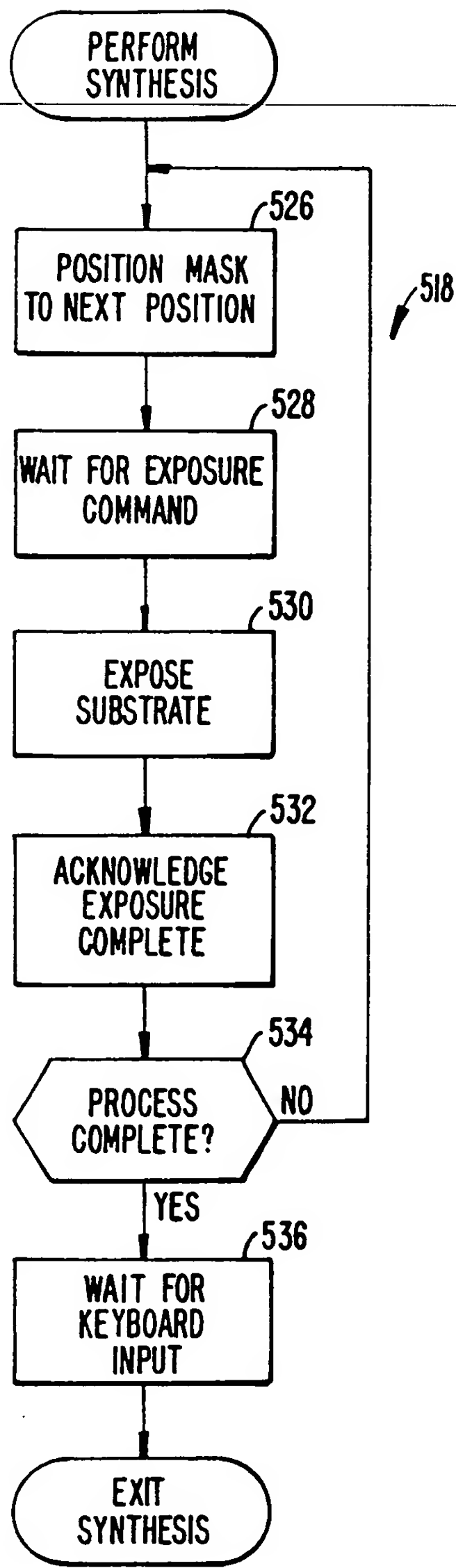


FIG. 24B

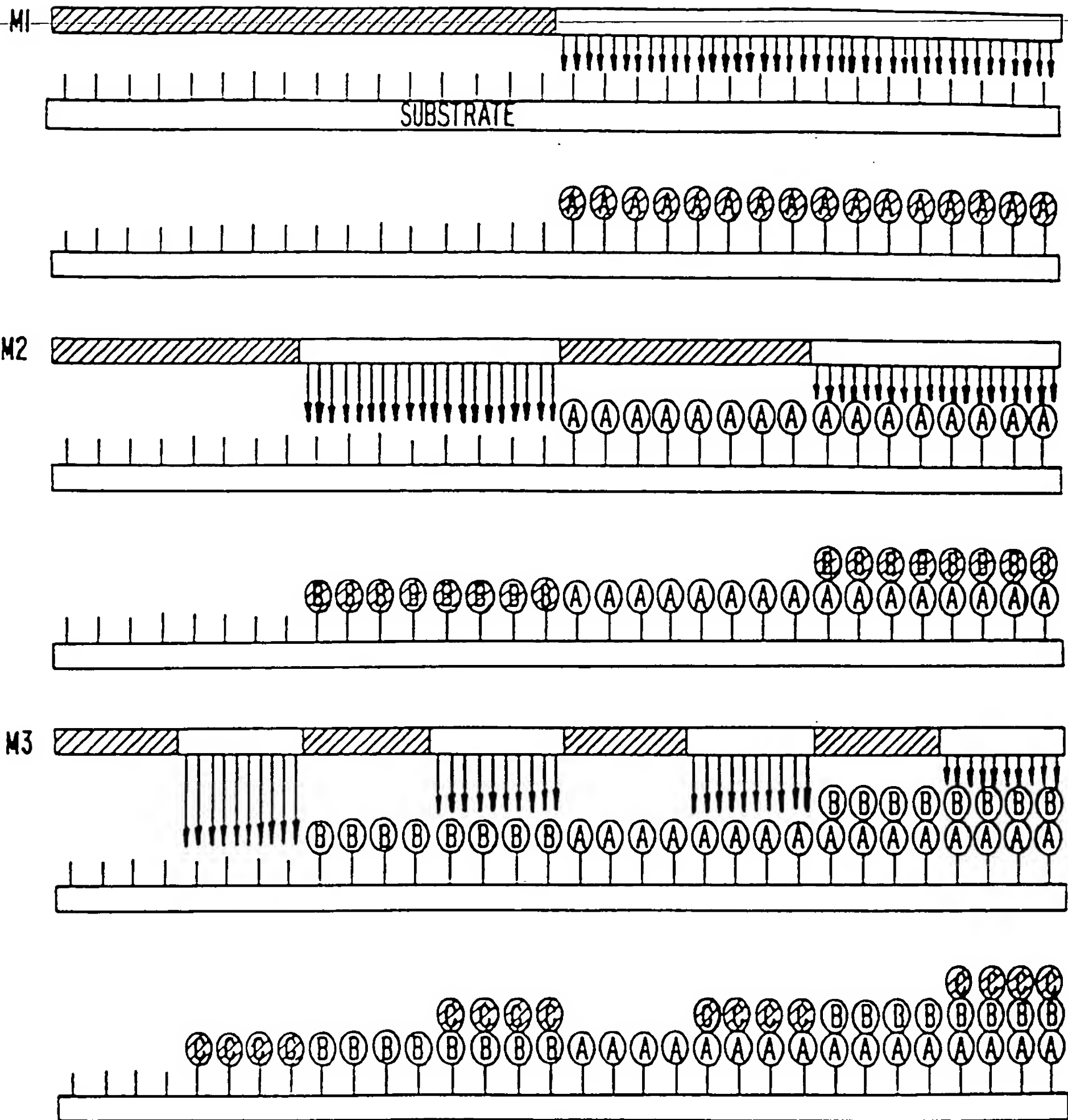


FIG. 25A

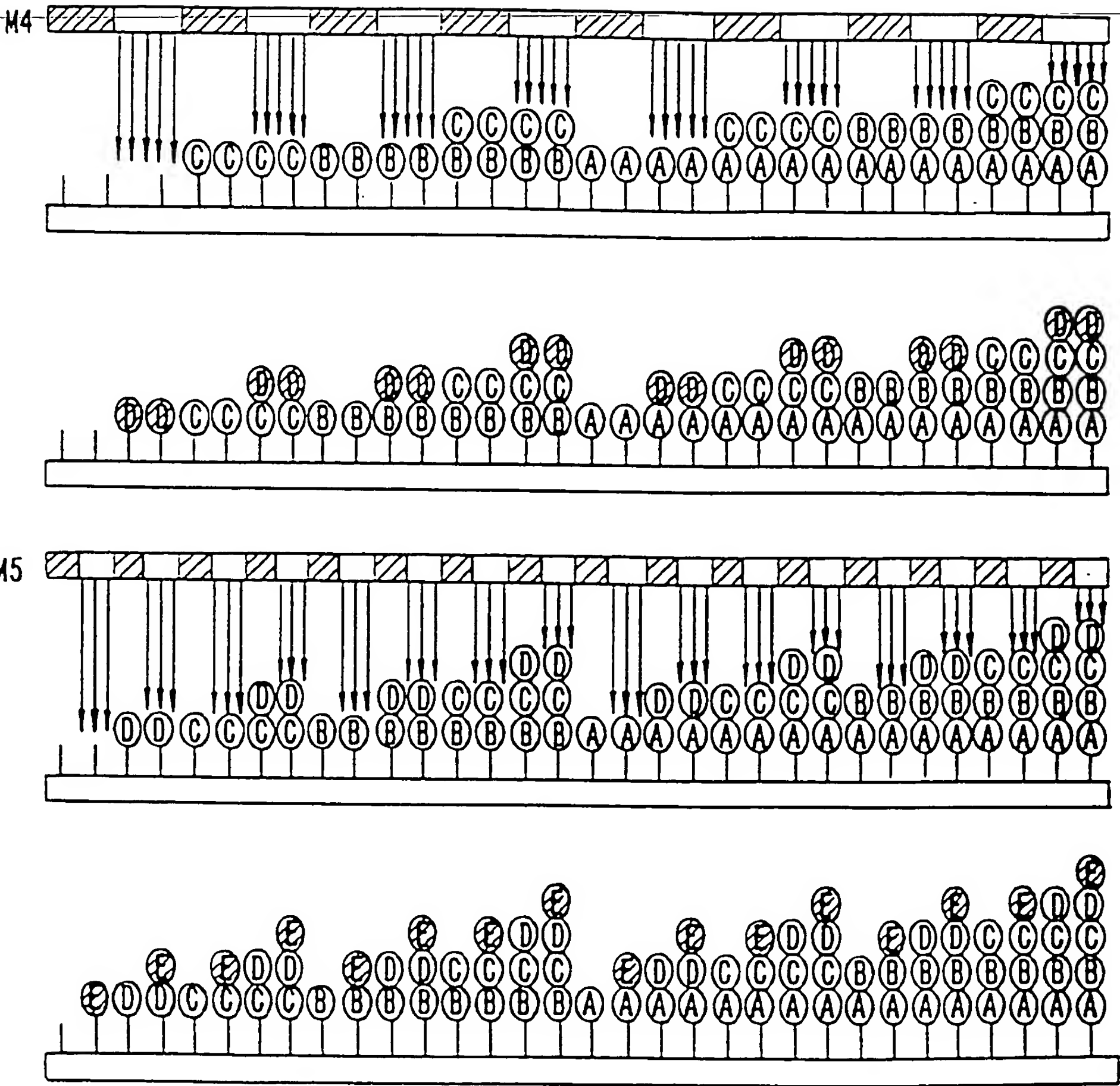


FIG. 25B

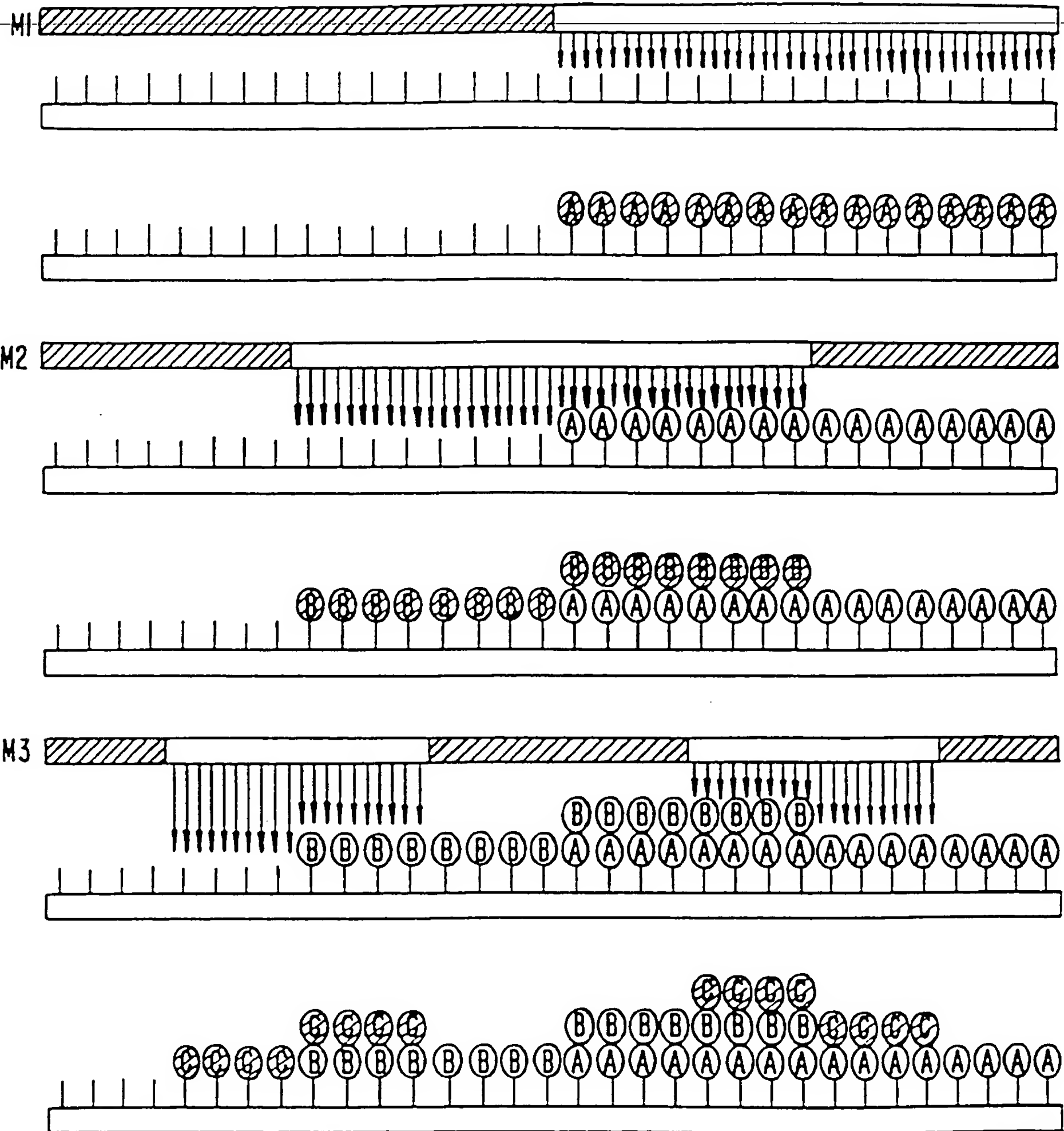


FIG. 26A



FIG. 26B

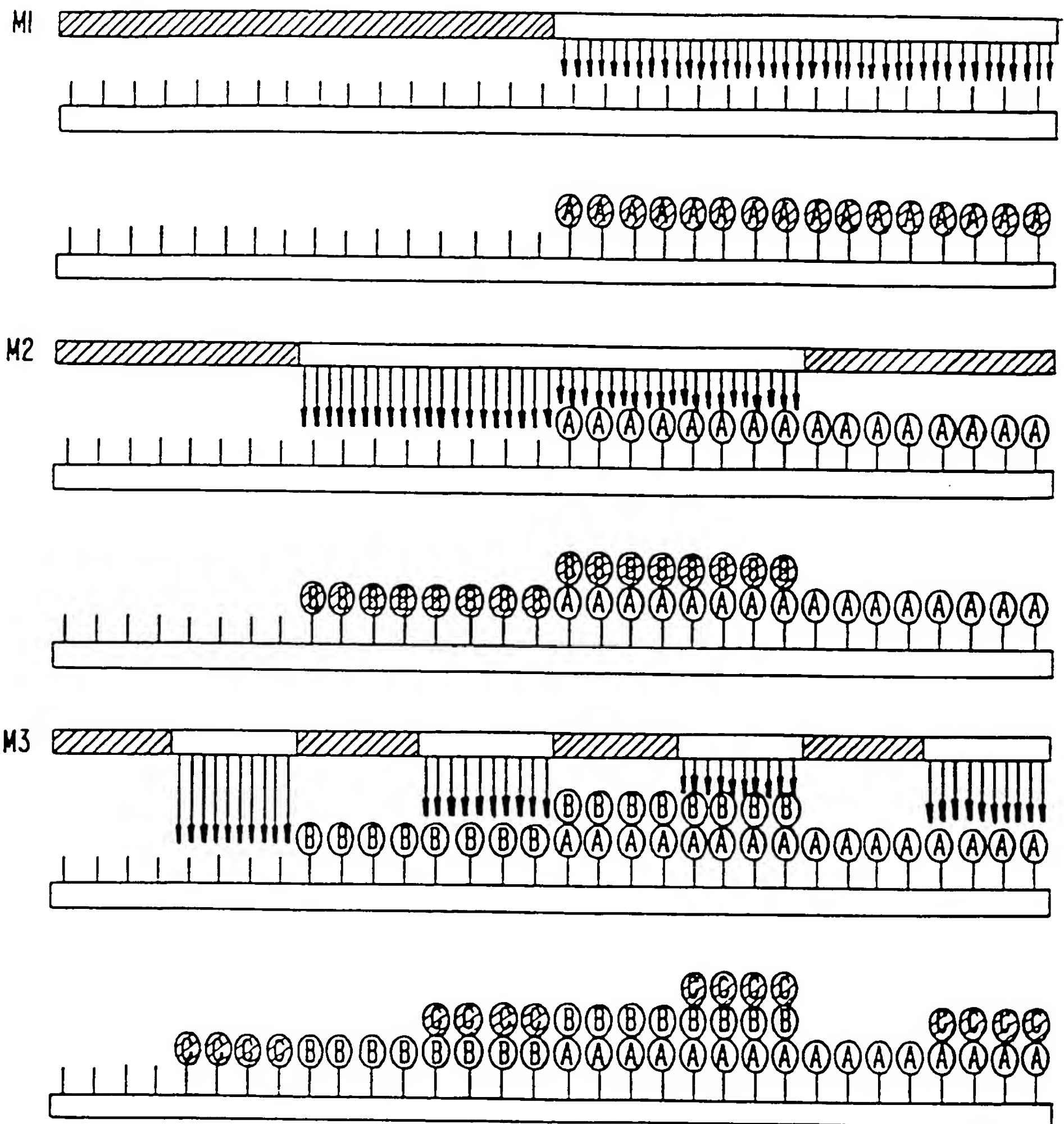


FIG. 27A

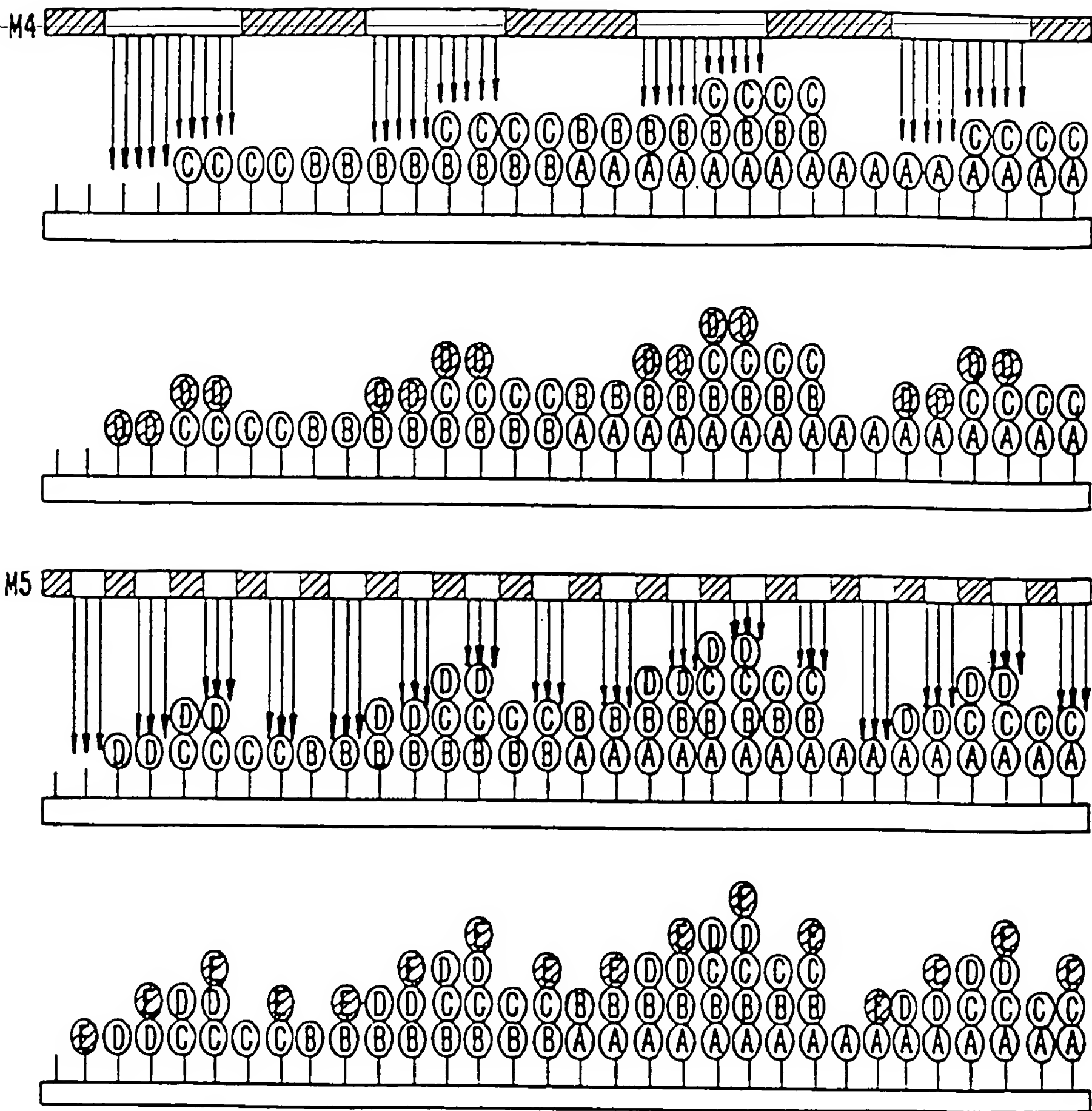


FIG. 27B

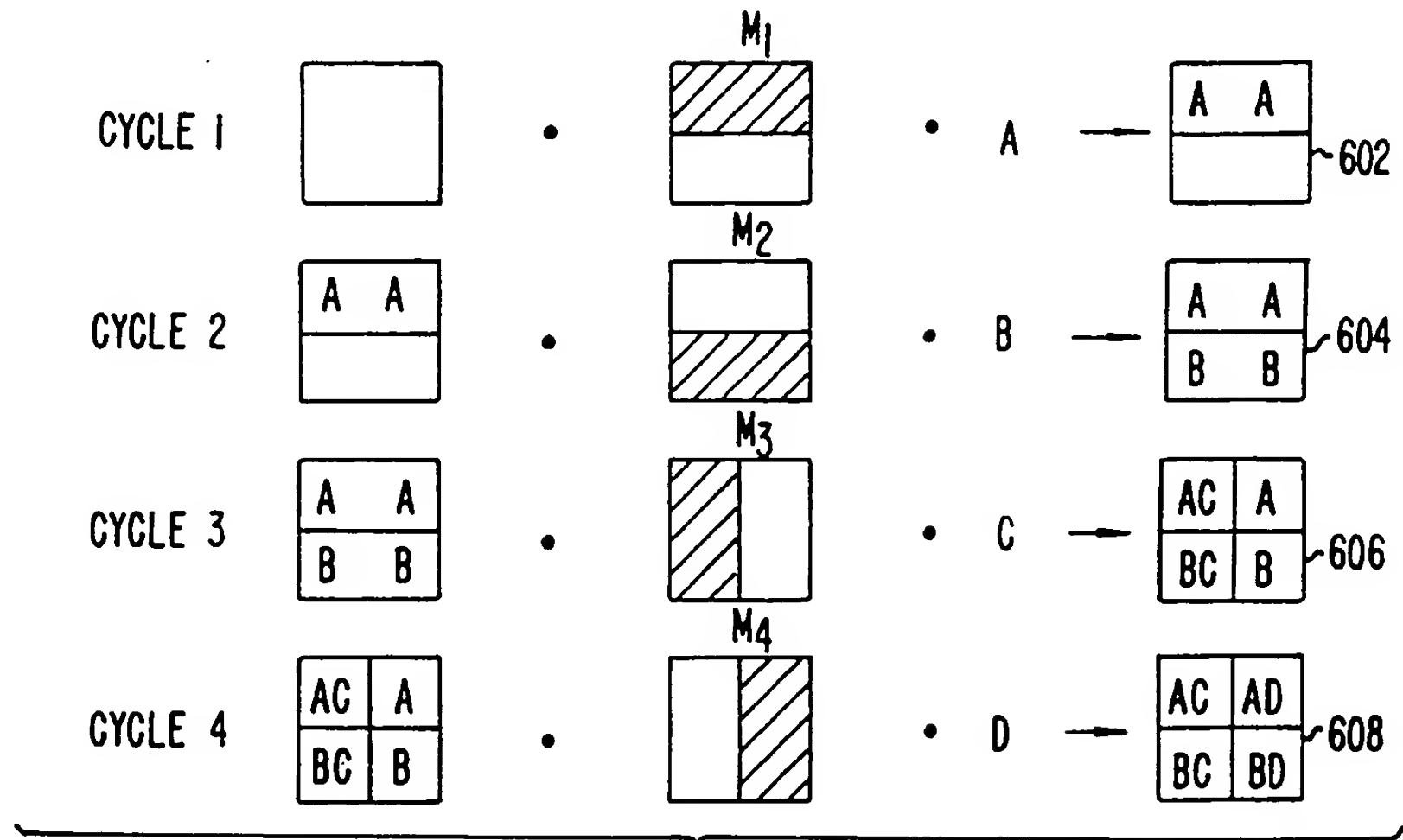


FIG. 28A

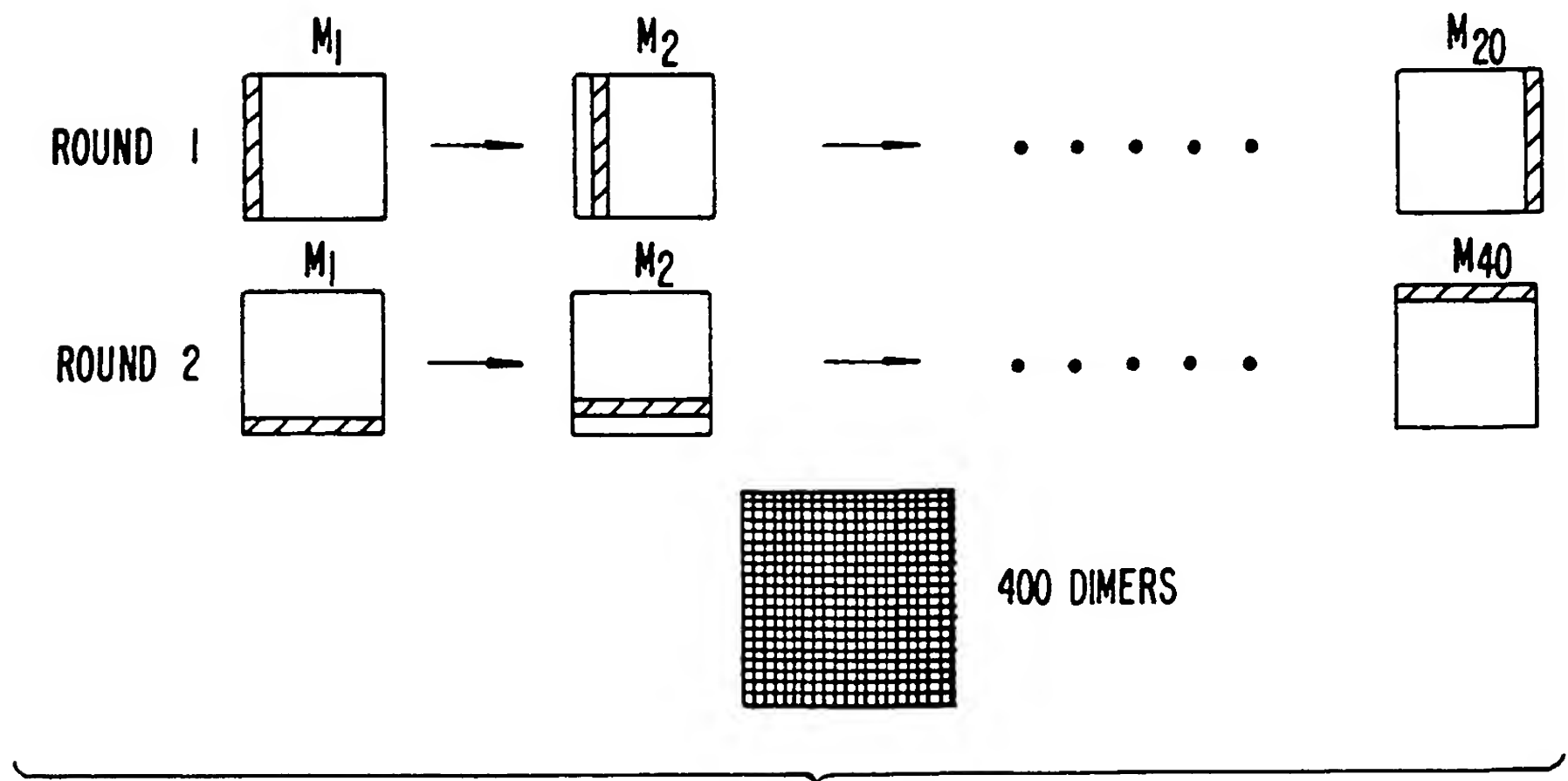


FIG. 28B

(x, y)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
f	f		f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f
Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G				G	G	G	G				G	G	G	G	G	G				G	G	G	G		
				A	A	A	A					A	A	A	A				A	A	A	A	A					A	A	A	A
	G	G	G	G	G					G	G	G	G				G	G	G	G	G					G	G	G	G		
			T	T	T	T	T				T	T	T	T						T	T	T	T					T	T	T	T
								F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F								
									S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
																F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F

FIG. 29

STEP	AREA PHOTOLYZED	MASK	COUPLE
1	100%		T
2	100%	.	V
3	100%	.	V
4	100%	.	K
5	50%		F
6 TO 25	Y20		G, A, R, K, C, M, S D, E, N, Q, F, H W, Y, L, P, V, I, T
26	50%		Q
27	100%		R

WILL GENERATE AN ARRAY OF 4 CLASSES OF PEPTIDES:

(1) RXKVVT	} WHERE X REPRESENTS SUBSTITUTION OF ALL 20 L-AMINO ACIDS
(2) RQXKVVT	
(3) RQXFKVVT	
(4) RFXKVVT	

FIG. 31

BEST AVAILABLE COPY

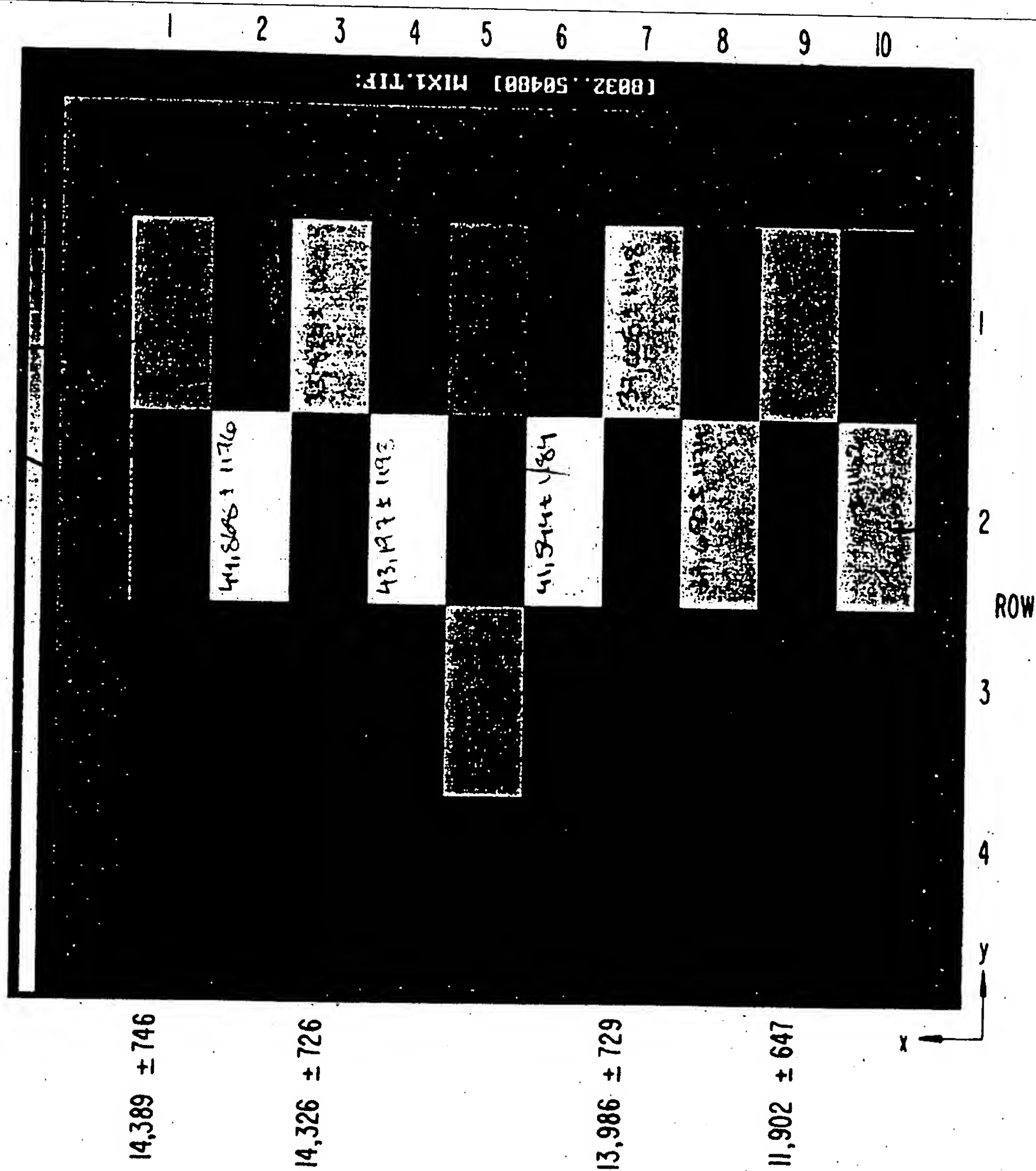


FIG. 30.

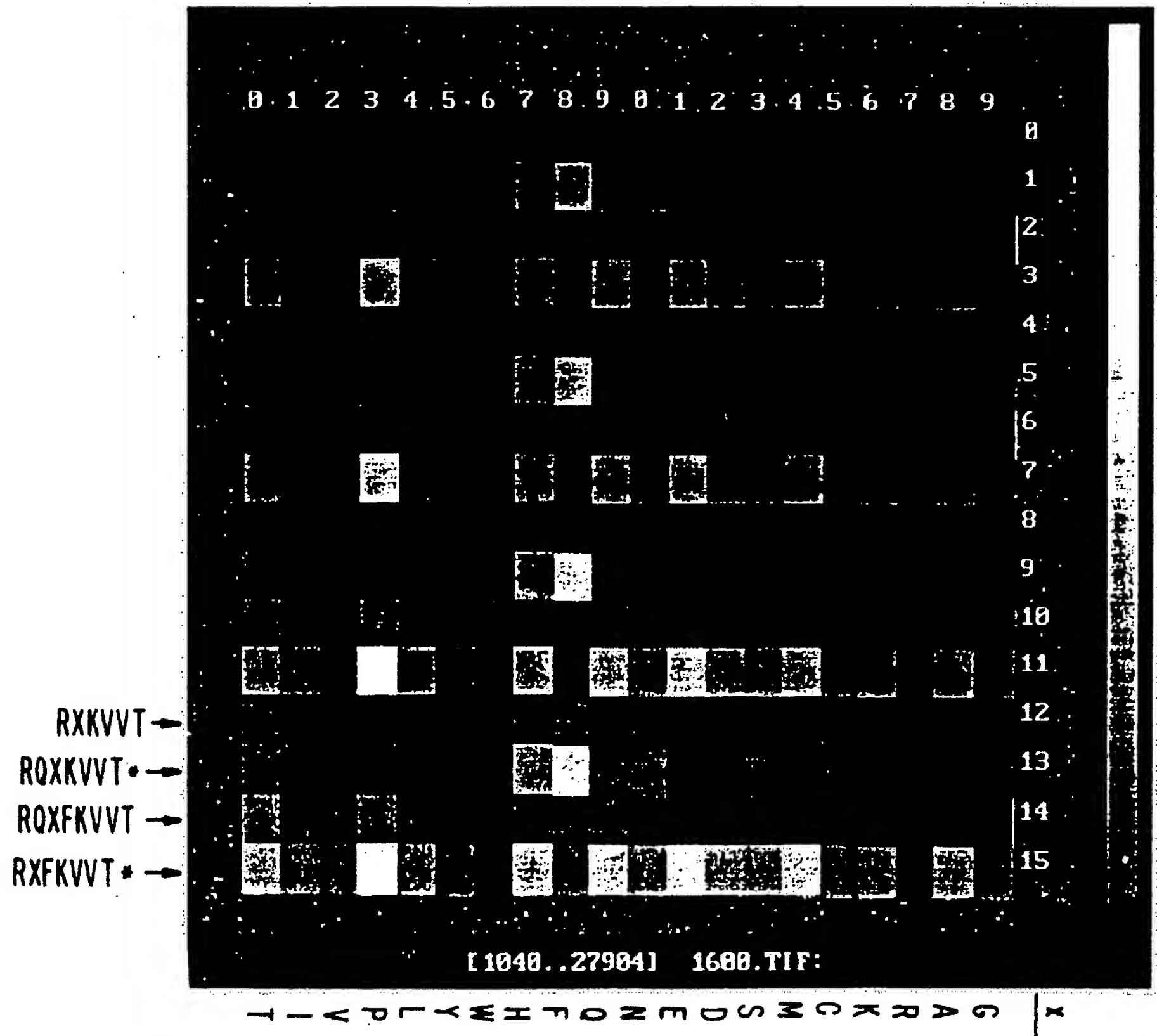


FIG. 32.

BEST AVAILABLE COPY

BEST AVAILABLE COPY

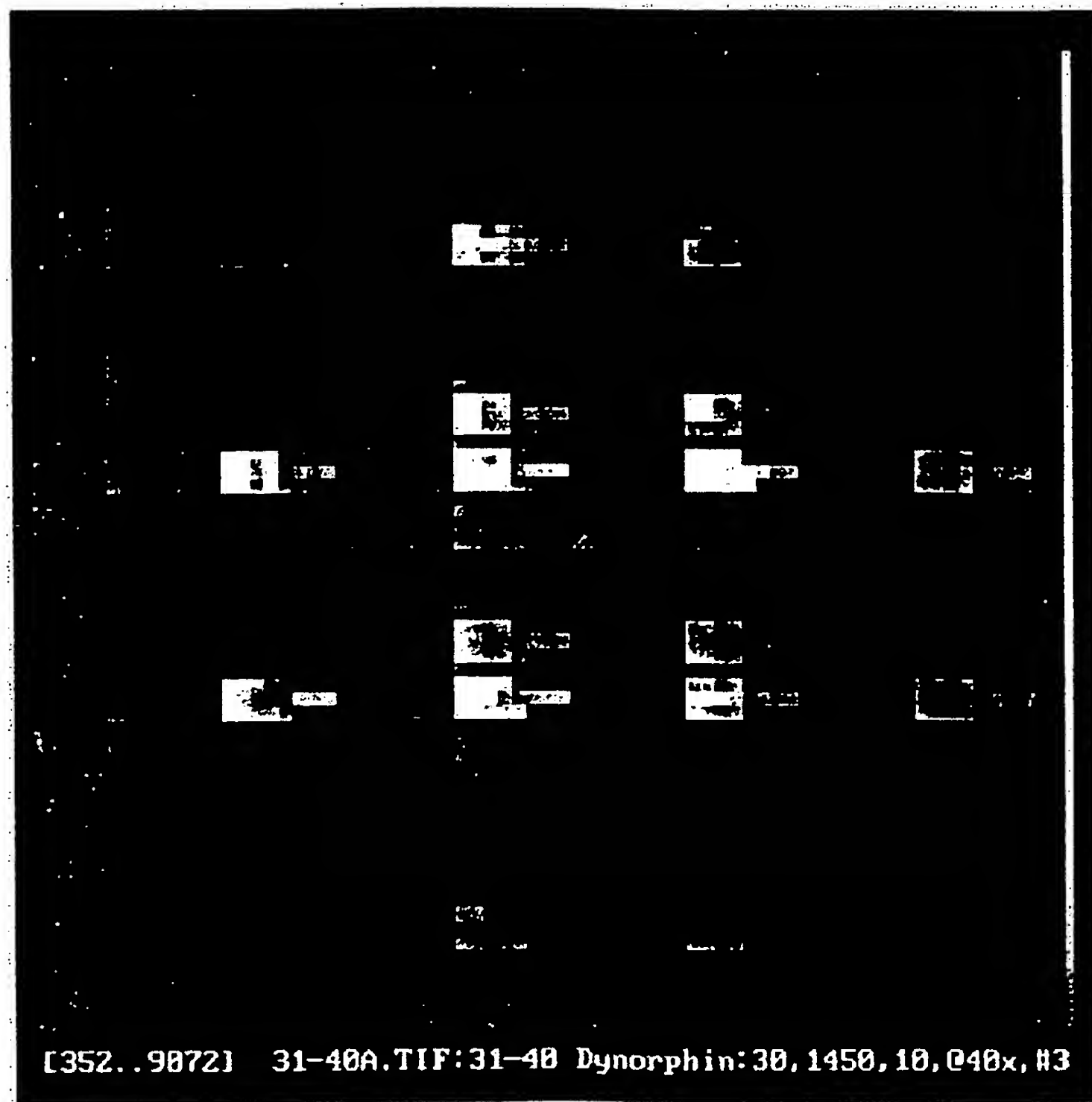


FIG. 33.

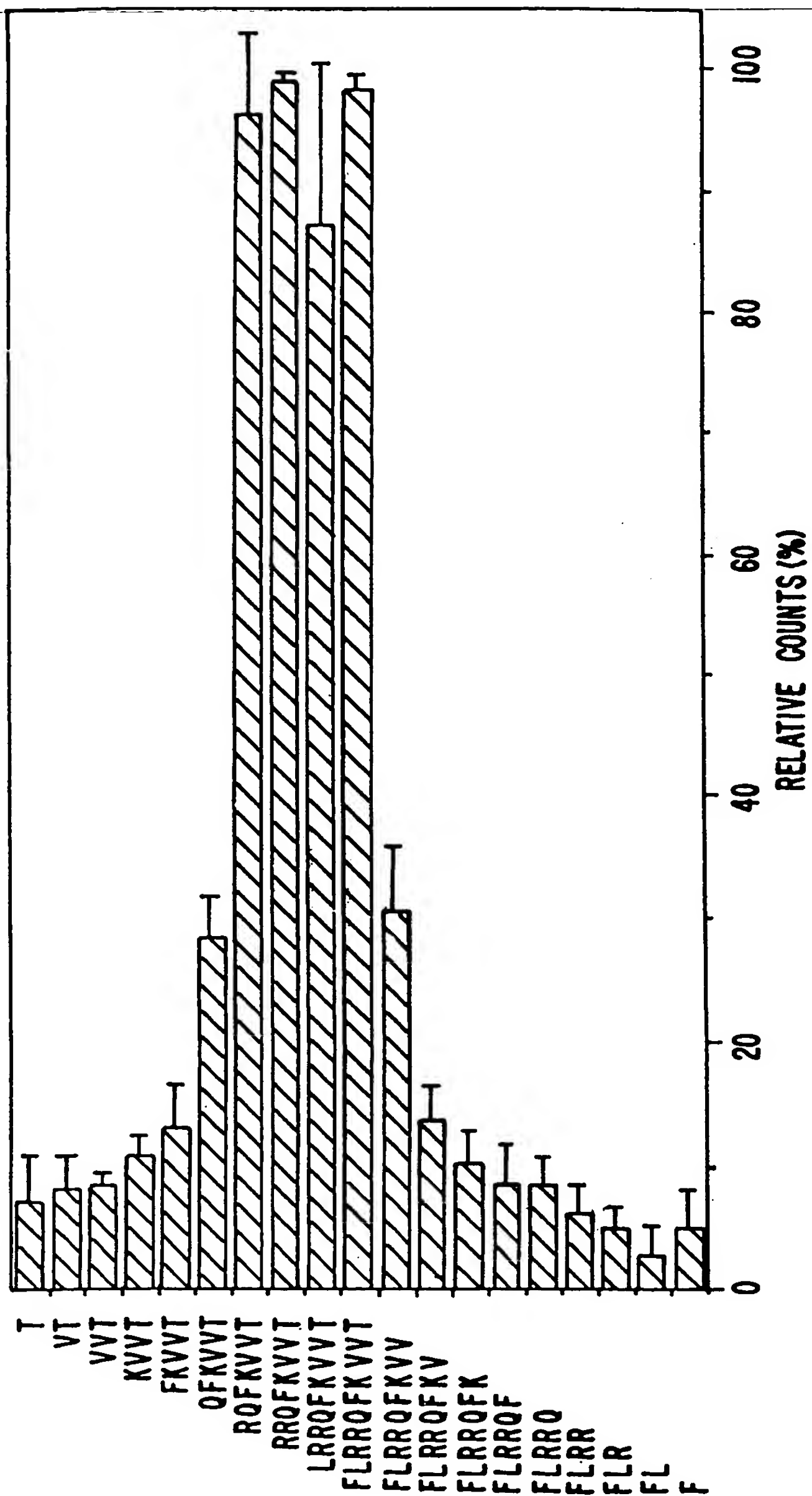


FIG. 34

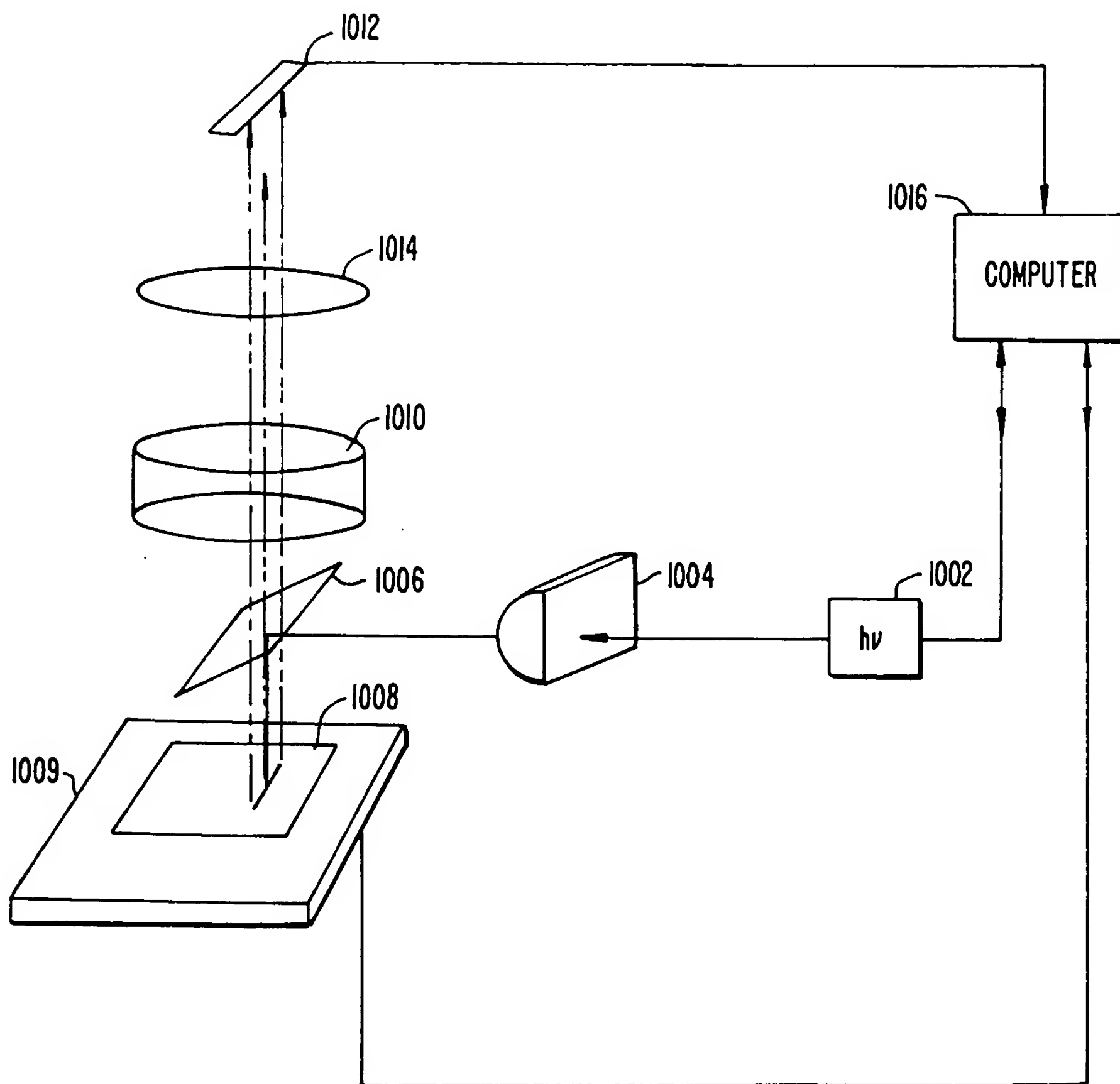


FIG. 35

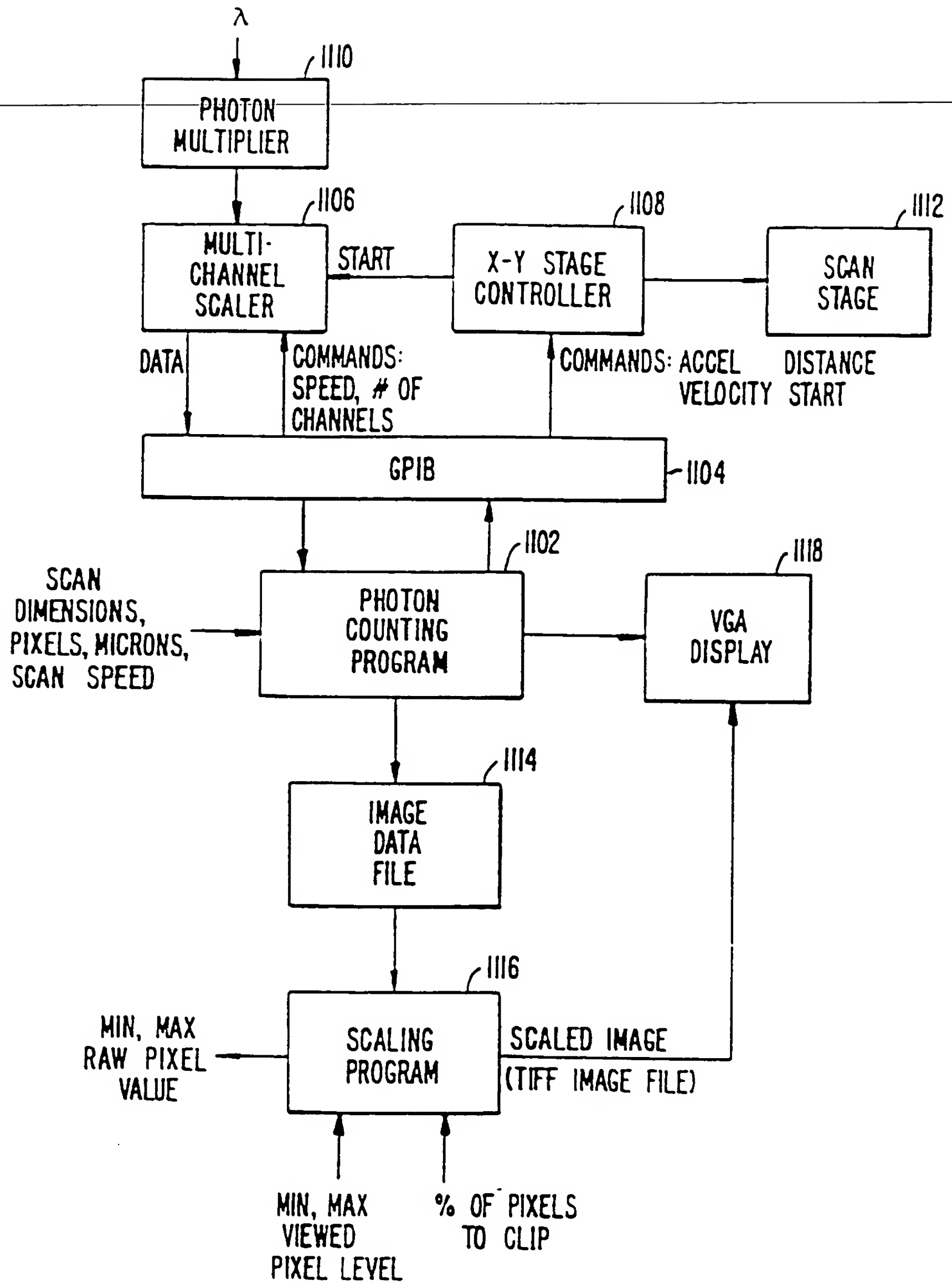


FIG. 36

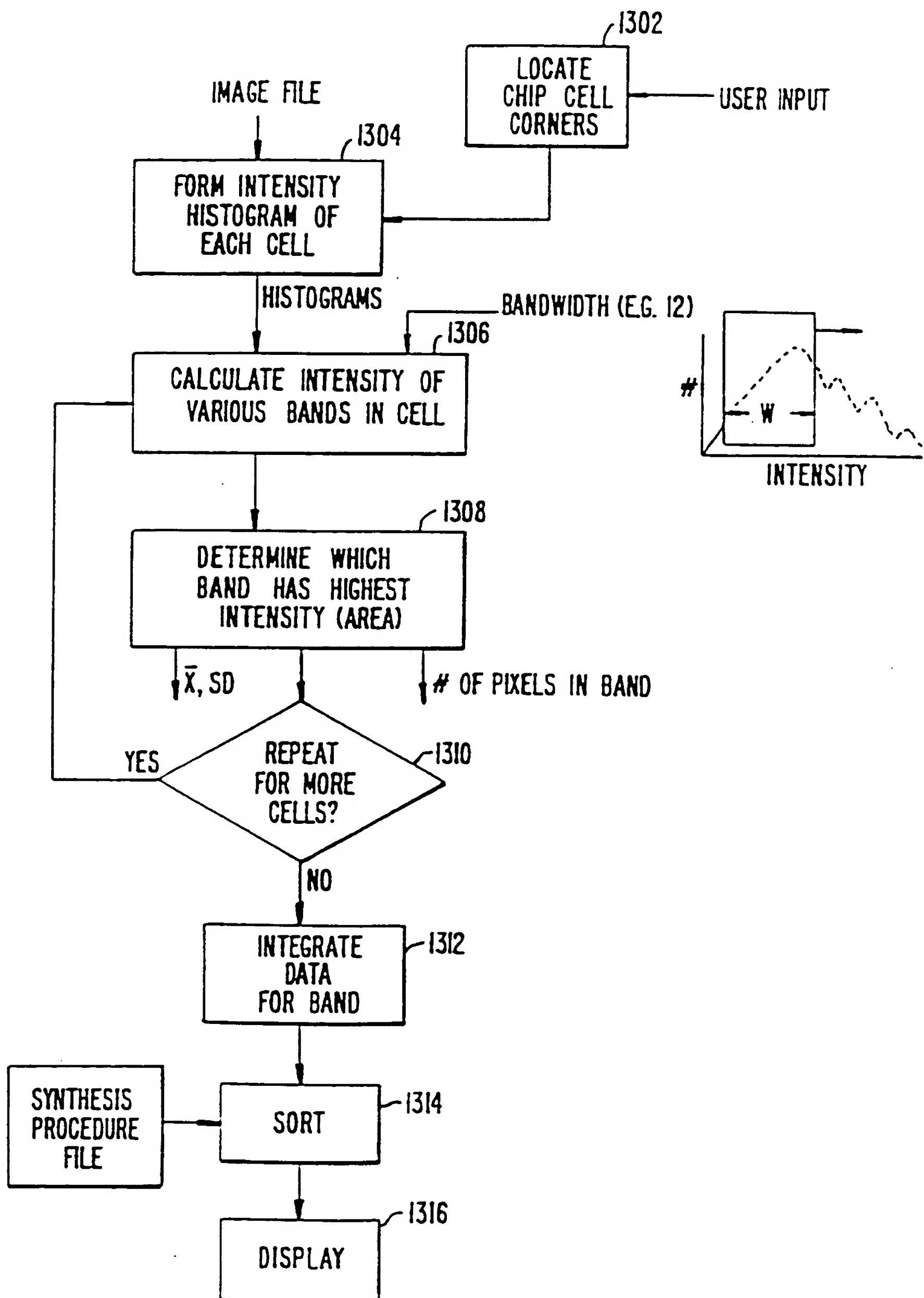


FIG. 37

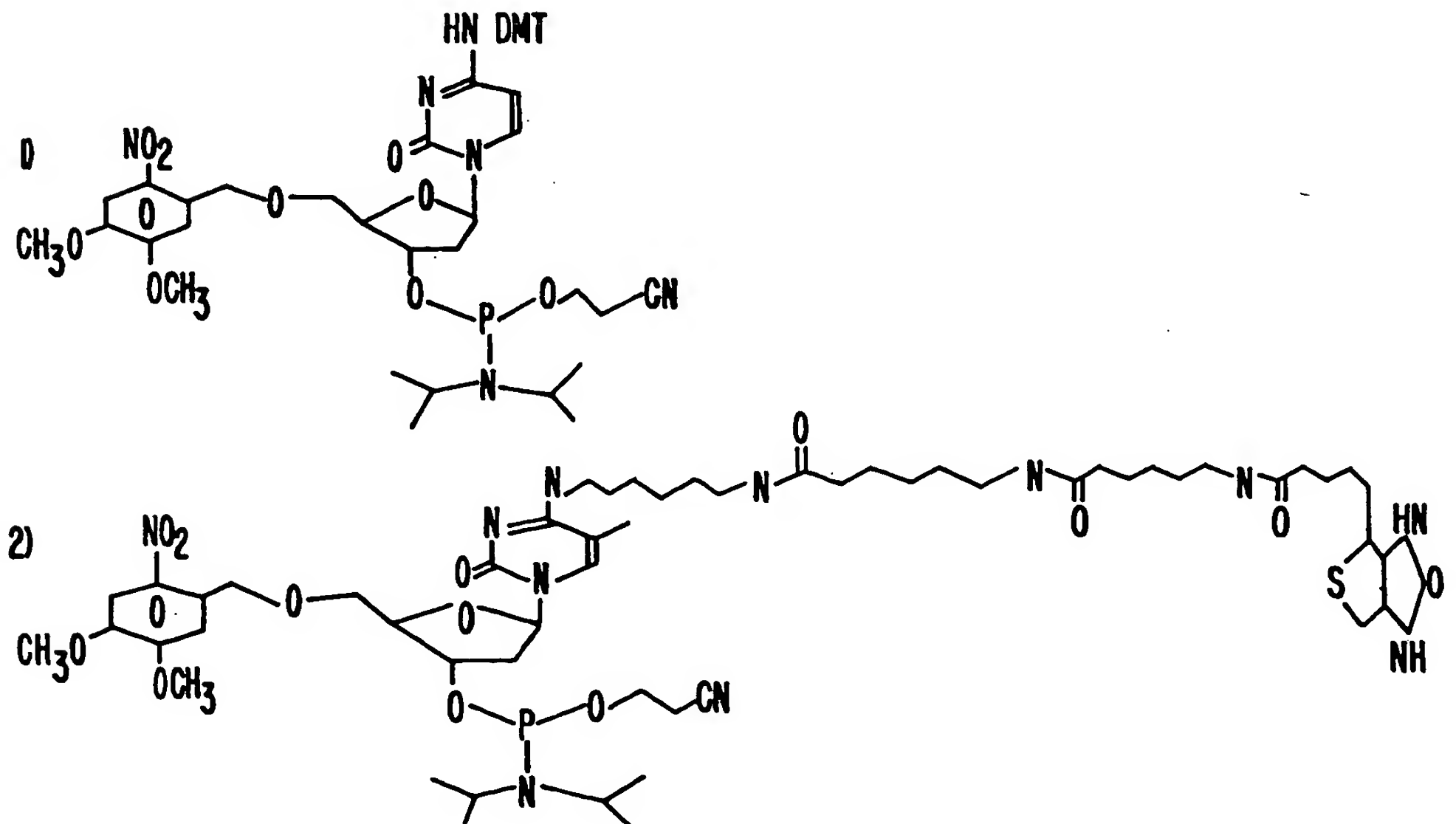
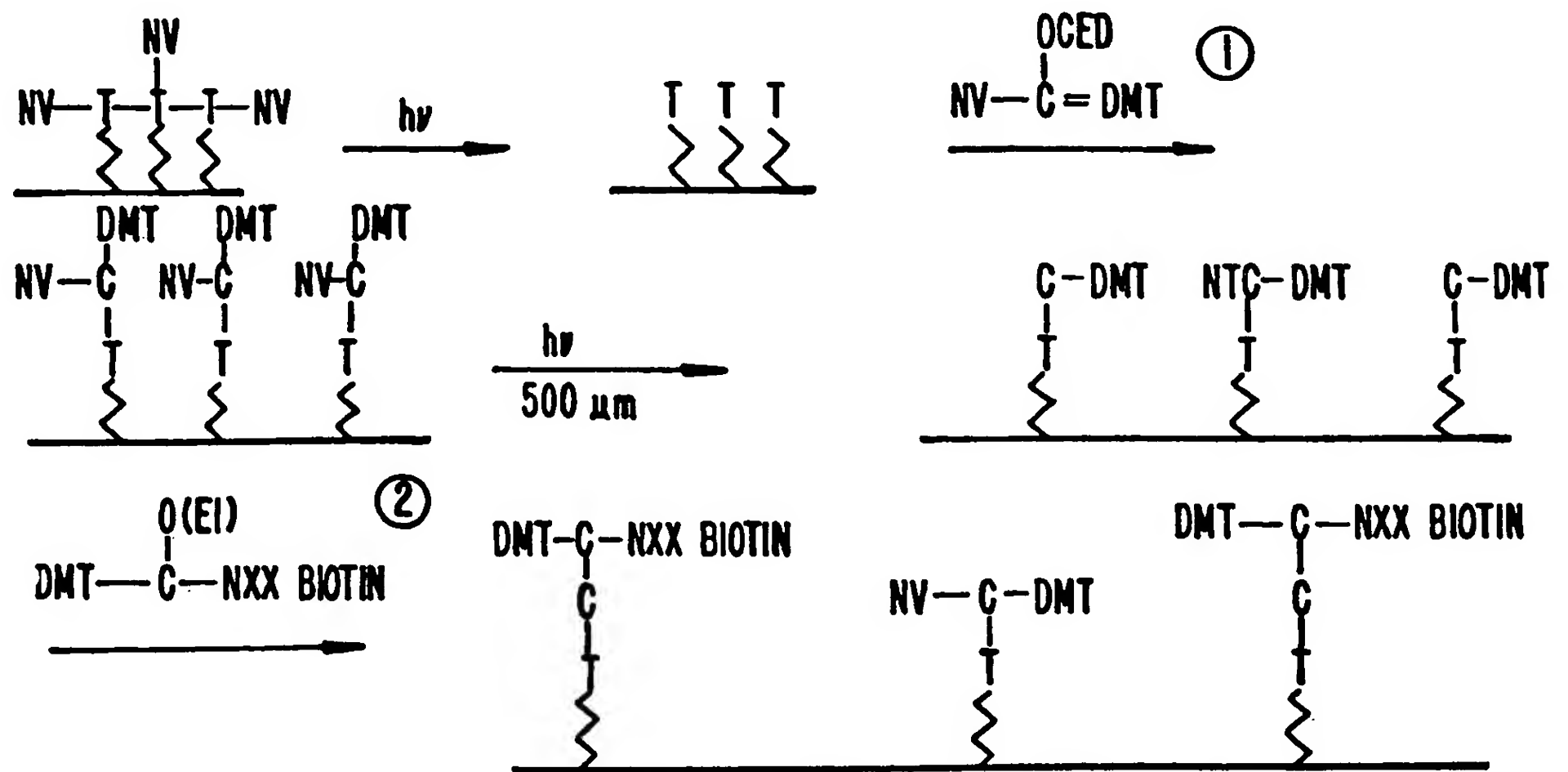
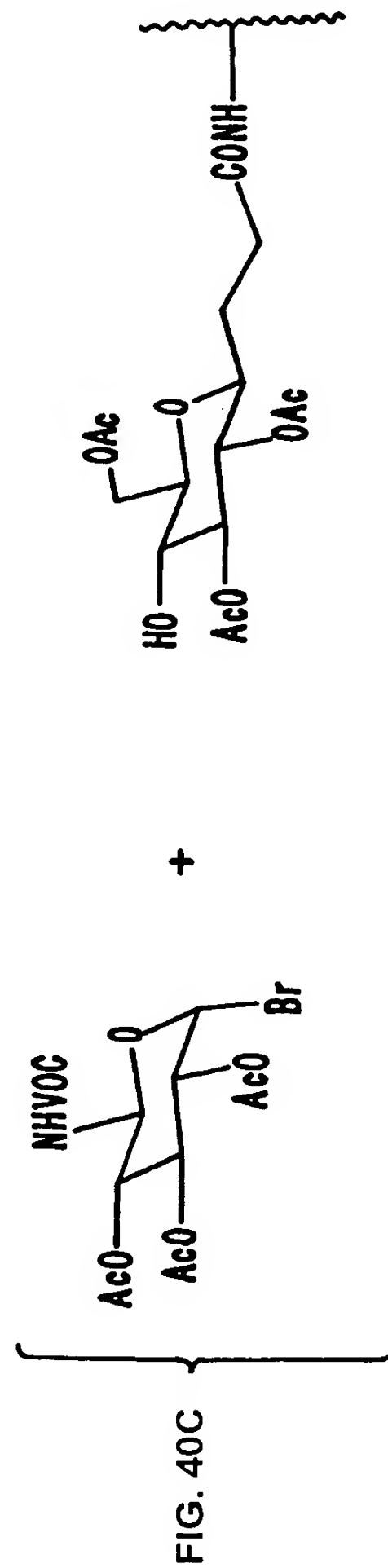
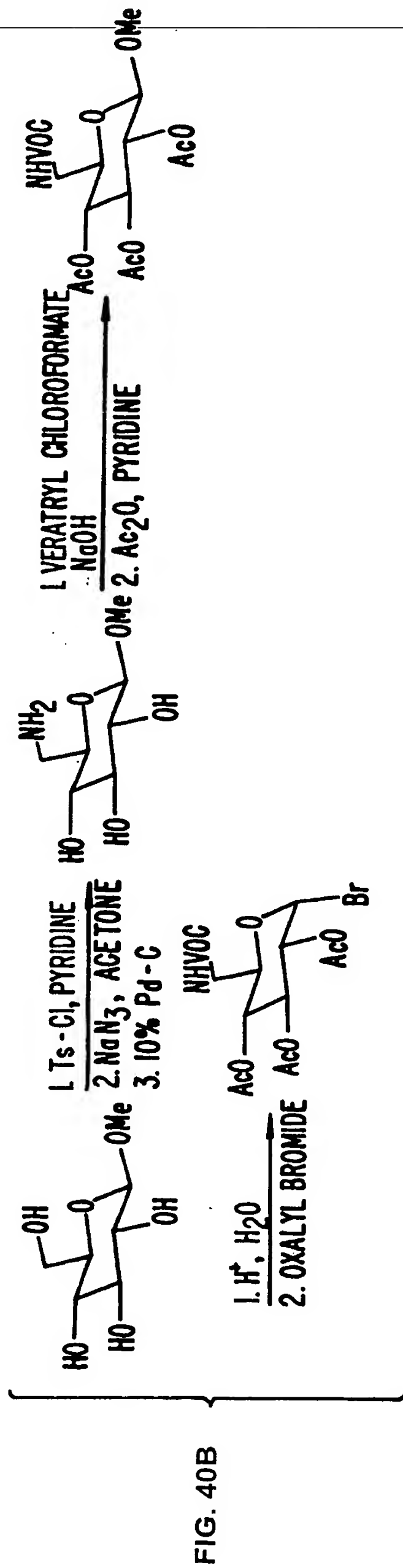
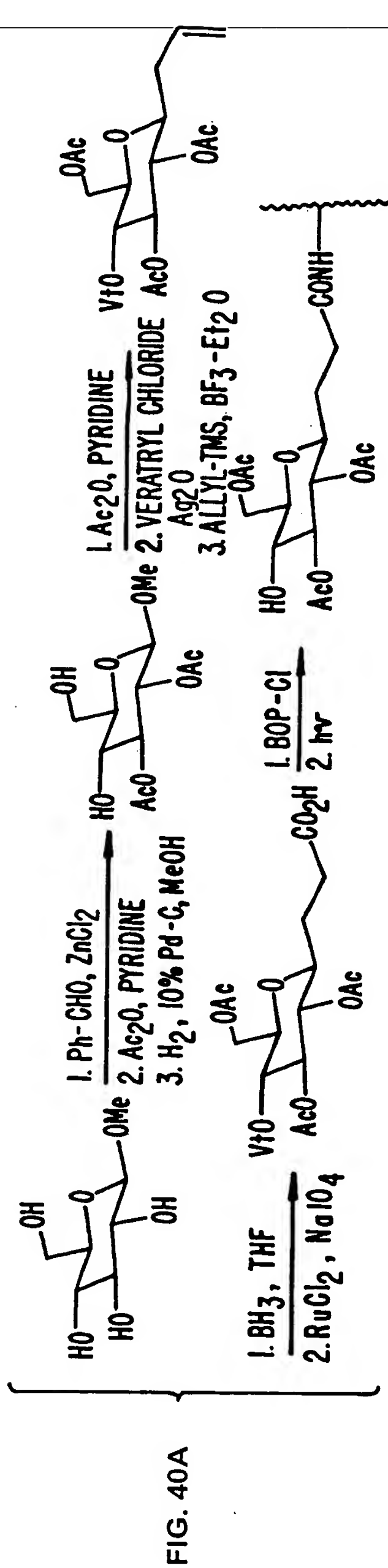
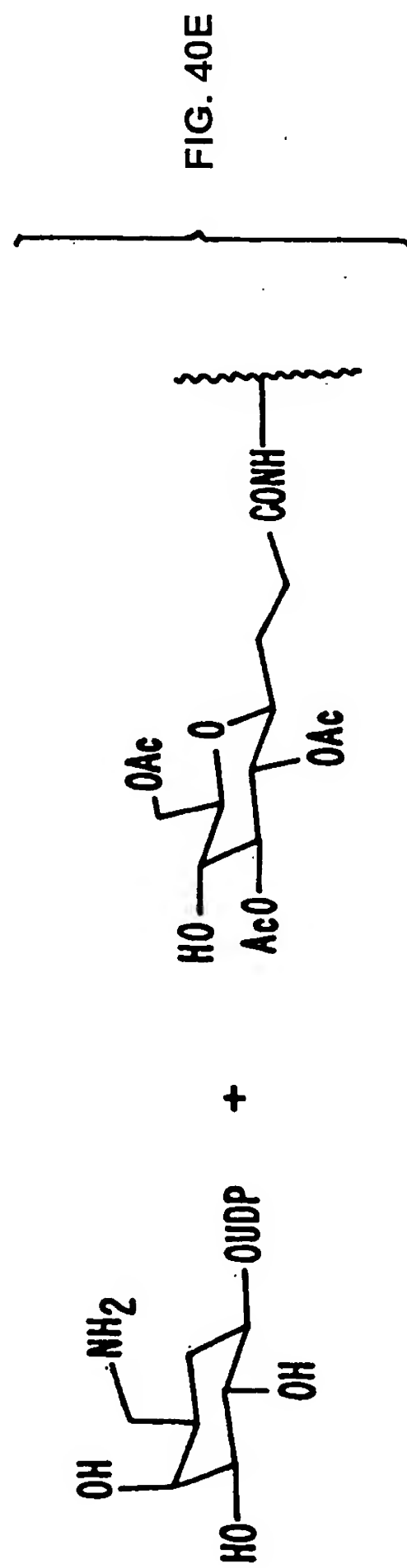
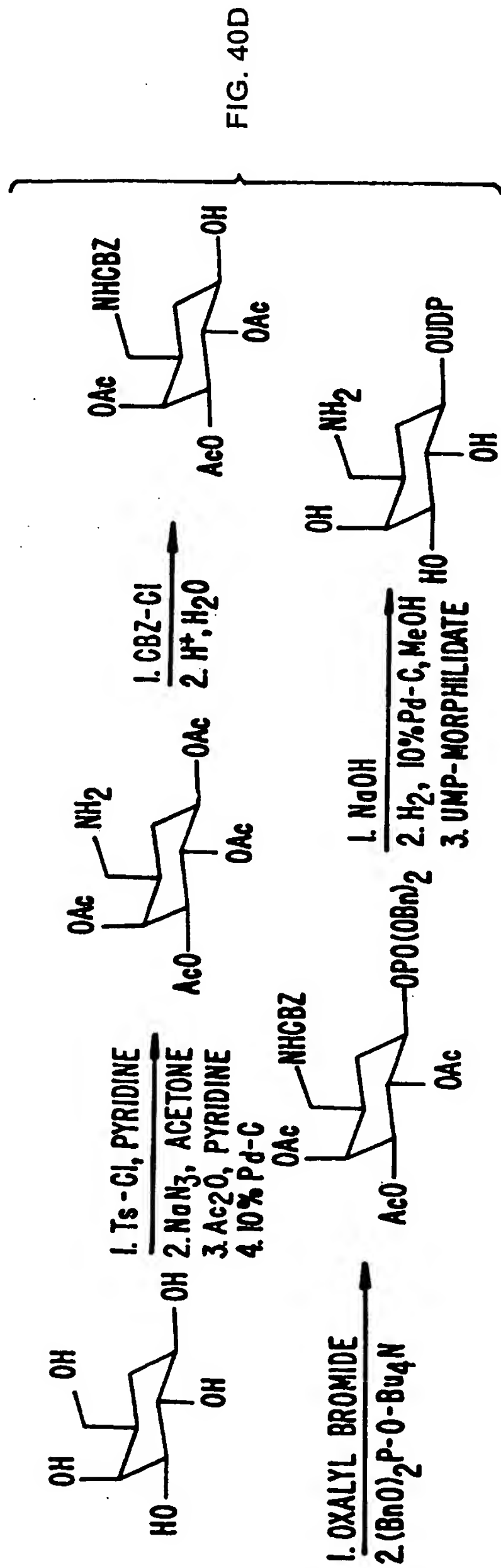
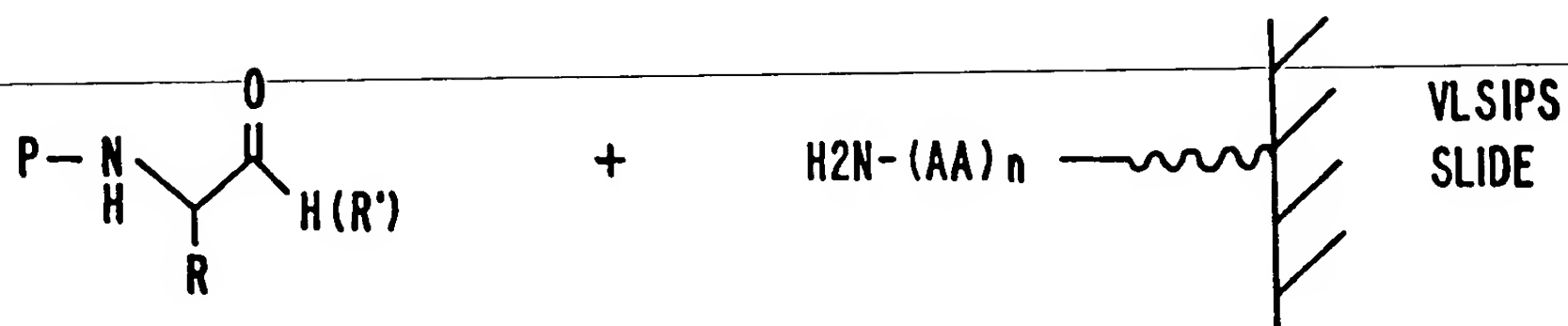


FIG. 38







WHERE R = AMINO ACID SIDE CHAIN OR OTHER DERIVATIVES

R' = ALKYL

P = PHOTO LABILE PROTECTING GROUP

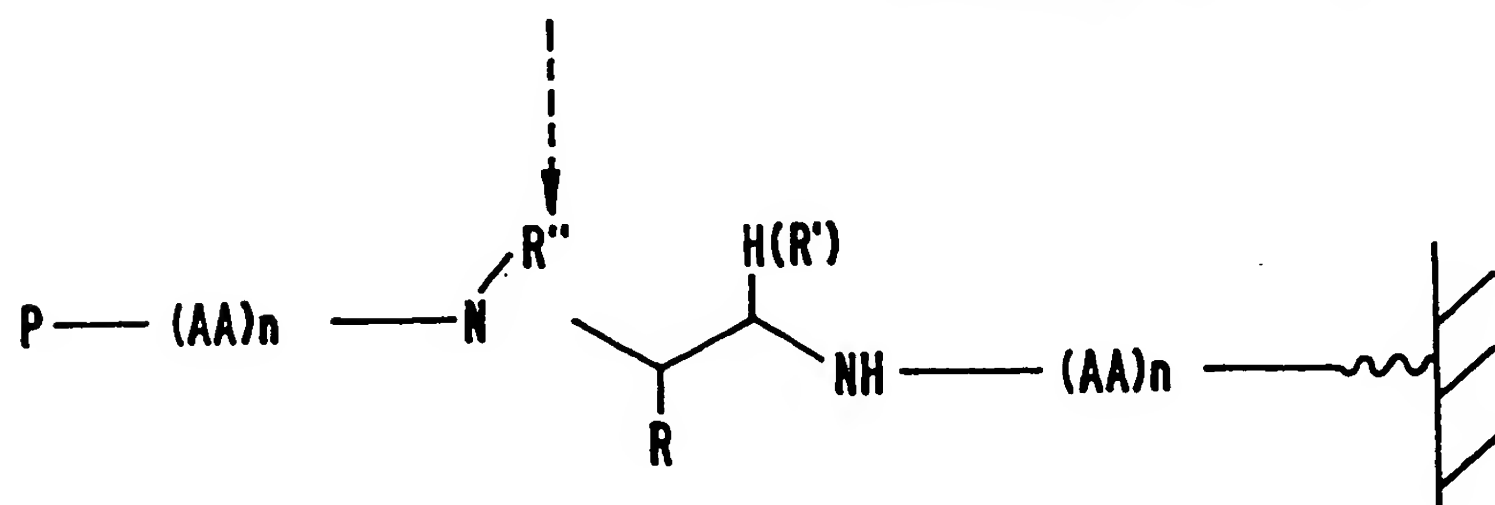
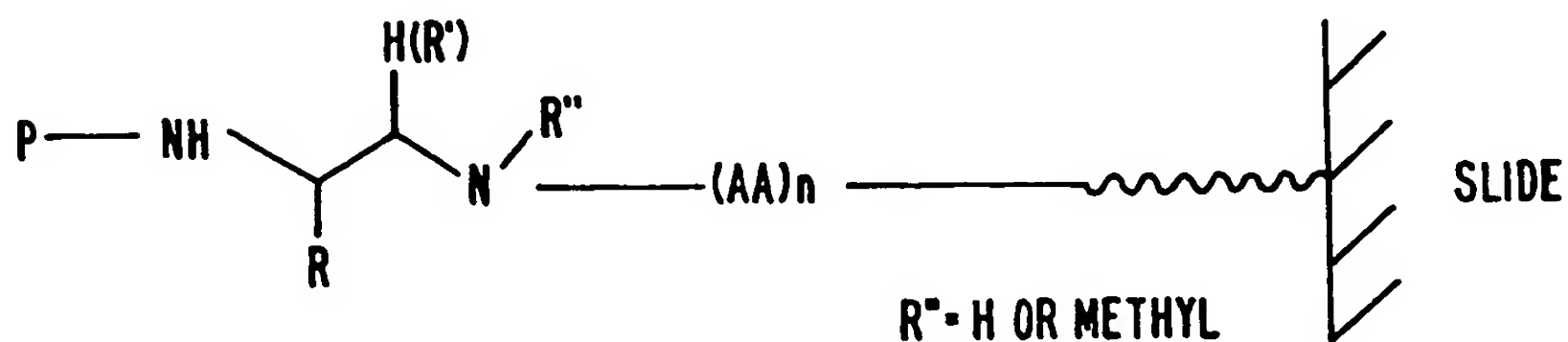
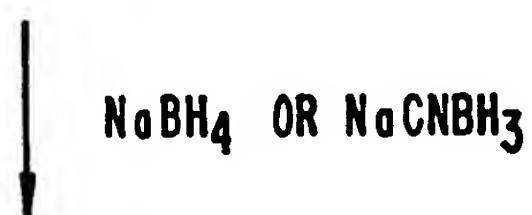
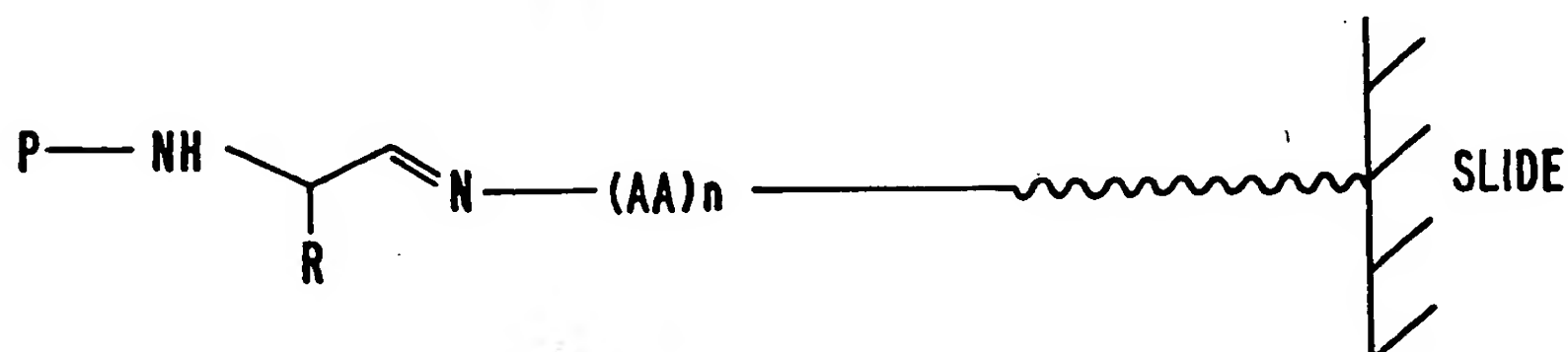


FIG. 41